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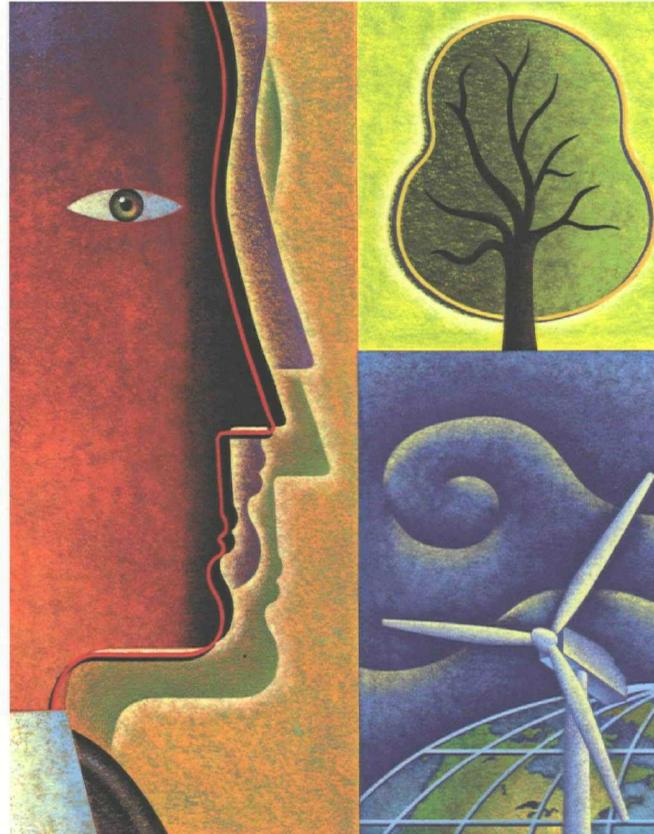


Monitored Natural Attenuation Status Report No. 2

March 2007 – July 2007 Reporting Period

**Lemberger Landfill and Lemberger Transport and Recycling Site
Town of Franklin, Wisconsin**

January 2008





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*Prepared For
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Executive Summary

In April 2005, the Lemberger Site Remediation Group (LSRG) obtained approval from the United States Environmental Protection Agency (USEPA) to begin a monitored natural attenuation (MNA) demonstration project at the Lemberger Landfill, Inc. (LL), and the Lemberger Transport & Recycling, Inc. (LTR), Superfund Sites. The intent of the project is to evaluate the effectiveness of MNA as an appropriate long-term remedial alternative for groundwater contamination at the sites.

Eight quarterly groundwater sampling events are planned, as part of the 2-year demonstration project. To date, four quarterly rounds of groundwater samples have been collected from the sites' wells for analysis of MNA parameters and volatile organic compounds (VOCs). The third and fourth quarterly sampling events were performed during this reporting period, in April 2007 and in July/August 2007. Samples of groundwater were also collected from 23 residential water supply wells near the LL and LTR, in March 2007 and June 2007, for analysis of VOCs.

To accommodate the MNA demonstration project, the groundwater pump-and-treat system was shut down on August 1, 2006. Changes in groundwater elevations and flow directions in the perched and lower groundwater system (LGS) have not occurred following shutdown; the post-shutdown orientation of the plume of dissolved chlorinated volatile organic compounds (CVOCs) has not changed; VOCs have not been detected in residential water supply wells following shutdown; and CVOCs have not been detected at the sites' sentinel wells at concentrations greater than the background limits (upper confidence limits).

The MNA analytical results show that biodegradation of 1,1,1-trichloroethane (1,1,1-TCA) and trichloroethene (TCE) is occurring in groundwater at the sites. The dissolved oxygen, carbon dioxide, and oxidation-reduction potential (ORP) data show that microbial activity is occurring in the LGS beneath the LTR and within the core of the plume that extends more than 5,000 feet north of the LL. Methane was detected in the LGS for the first time in April 2007 at near-field (LTR) bedrock well RM-7D, and nitrate and sulfate reduction is occurring at nested deep bedrock well RM-7XD. The production of methane (methanogenesis) typically occurs after oxygen, nitrate, and sulfate have been depleted from groundwater and suggests that the processes of reductive dechlorination are well established in groundwater beneath the LTR.

Because the data set is limited to 1 year of samples, collected seasonally between September 2006 and July/August 2007, trends in the reported concentrations of MNA parameters and short-term trends in the reported concentrations of VOCs cannot be fully evaluated at this time.

One apparent short-term trend that bears watching is that of increasing concentrations of 1,1,1-TCA at near-field well RM-7D, and sentinel wells RM-203D and RM-211D. Following the second season of sampling, seasonal variations in the current data may become more apparent and emerging trends like those above might be better evaluated.

Overall, the groundwater MNA parameter data indicate positive results. As a result, we recommend continuing with the proposed schedule of MNA sampling according to the Workplan. The third semiannual MNA status report will be submitted following completion of the fourth (October 2007) and fifth (December 2007) quarterly MNA sampling rounds.

Section 1

Introduction

RMT, Inc. (RMT), on behalf of the Lemberger Site Remediation Group (LSRG), is submitting this Monitored Natural Attenuation Status Report No. 2. This Report is the second of three interim progress reports that will be submitted semianually during the 24-month monitored natural attenuation (MNA) demonstration project, in accordance with the April 2006 revised Workplan for the MNA Engineering Demonstration Project (MNA Workplan) (RMT, 2006c). Attached to this report are various summaries of the groundwater elevation and analytical data for the baseline (July 2006) and four quarterly (September 2006, December 2006, April 2007 and July/August 2007) MNA sampling events.

The primary goals of this Report are to identify and evaluate the spatial distribution of important MNA parameters in groundwater, in order to assess the ongoing processes of natural attenuation at the sites. A final assessment of the efficacy of MNA as a remedial alternative will be provided at the conclusion of the MNA demonstration project following completion of the eighth quarterly round of groundwater sampling in June 2008.

Section 2

Schedule of Sampling and Sampling Events This Period

The schedule of sampling, as proposed in the revised MNA Workplan, is presented; and any changes to this proposed schedule are noted in the subsections that follow.

2.1 Schedule of Sampling According to the Workplan

The proposed schedule of groundwater sampling for the 24-month MNA demonstration project was developed to incorporate the currently approved groundwater monitoring program for the LL and LTR sites. Table 1 presents the groundwater sampling program for the MNA demonstration project, and Table 2 shows the currently approved groundwater monitoring program for the LL and LTR sites. Table 3 lists the well groupings relative to the sampling schedules; Table 4 the MNA parameters, analytical methods, and reporting limits; and Table 5 the types of sample containers, preservatives, and holding times for the MNA parameters. Figure 1 is an aerial photograph of the site and identifies the locations of all groundwater monitoring points used in this study.

2.2 Sampling Events This Period

Quarterly groundwater sampling was performed during this reporting period between April 9, 2007, and April 24, 2007 (third round), and between July 24, 2007, and August 3, 2007 (fourth round). Two previous rounds of MNA groundwater sampling were performed in September and December 2006, and baseline sampling was performed in July 2006. The quarterly sampling events are designed to capture any seasonal variations (i.e., fall, winter, spring, summer) that might occur in groundwater elevations and aquifer chemistry.

Samples of groundwater are collected using low-flow rate techniques as described in the QAPP Addendum (RMT, 2006a), and samples are field- and laboratory-analyzed in accordance with the Supplement to the Addendum to the QAPP (RMT, 2006b). Table 6 provides a summary of the volatile organic compounds (VOCs) detected in groundwater during the reporting period at concentrations greater than Chapter NR 140 Enforcement Standards, and Table 7 presents a summary of the groundwater elevations including the April 2007 and July/August 2007 sampling events. Appendix A contains hydrographs showing the historical water elevation data for wells in the sampling program. A tabular summary of water level measurements, which includes water level data for months not coincident with the quarterly sampling events, is contained in the routine O&M Progress Reports. Table B1, contained in Appendix B,

provides a tabular summary of all VOCs detected in groundwater and a summary of the field and laboratory results for each of the MNA parameters and dissolved metals. An evaluation of the data is provided in Section 3 of this report.

2.3 Dissolved Oxygen Sampling

During the fourth quarterly sampling event in July/August 2007, dissolved oxygen (DO) probes and CHEMets® (self-filling reagent ampoules) were used to field-analyze the concentration of DO in groundwater. Geotech® P3 probes were used during the low-flow stabilization of each well to monitor DO and other stabilization criteria (pH, temperature, specific conductance, and ORP), per the QAPP, but at the time of sampling, a CHEMets® ampoule was also used to measure the concentration of DO. The result of the CHEMets® ampoule method was compared to the DO probe reading, as a quality control check; and the reported DO results for the ampoule method matched the probe readings.

During the reporting period, the reported concentrations of DO in groundwater at the sites ranged from at 8.93 mg/L at water table well RM-210I (April 2007) to 0.08 mg/L at shallow piezometer RM-205I (July 2007). Although the high end of the range of reported DO concentrations is above what is expected for groundwater, a comparison of the distribution of DO to the distribution of ORP and dissolved carbon dioxide (CO₂) suggests that a qualitative evaluation of the DO data can be supported. The highest concentrations of DO were generally reported at water table observation wells completed in bedrock, and lower (and possibly depleted) concentrations of DO are apparent beneath the LTR and within the plume of CVOCs that extends north of the LL.

Because the DO results appear to be anomalously high in some locations, the occurrence of air bubbles in the flow-through cell or air bubbles in the discharge tubing will be noted during purging and sampling for the remaining sampling events. Aside from the introduction of the groundwater samples to the atmosphere, other known interferences with the DO probes or ampoules are not likely to be present in groundwater at the sites. Further evaluation of DO will be reported in the next semiannual report, and both the DO probe and CHEMets® ampoule will be used during the remaining MNA sampling events.

Section 3

Data Evaluation

The groundwater elevation data, as well as the MNA parameter and VOC analytical results for the reporting period are discussed, and a comparison of the data set to previous MNA sampling results follows.

3.1 Well Designations

For purposes of this report, wells are designated as either "background," "near-field," "far-field," and "sentinel," as shown in Table 8. These descriptive designations generally identify each well's hydraulic position relative to the LL and LTR, and relative to the position of the plume of dissolved CVOCs.

3.2 Groundwater Levels

No appreciable changes in groundwater elevations or flow patterns are evident at the site following the shutdown of the groundwater extraction system. In accordance with the revised MNA Workplan (RMT, 2006e), the short-term response of groundwater levels at extraction wells and nearby observation wells was monitored as each extraction well was taken off-line on August 1, 2006. The cessation of pumping resulted in the recovery of groundwater elevations in the immediate vicinity of the extraction wells to prepumping elevations; and the hydrographs (contained in Appendix A) and the groundwater flow direction maps (Figures 2 and Figure 3) indicate post-shutdown conditions consistent with historical data.

3.2.1 Perched Groundwater System

Groundwater in the upper granular unit (UGU) is not hydraulically connected to the lower groundwater system (LGS), where the groundwater extraction system had been in operation. As shown on the hydrographs contained in Appendix A, the elevation of the perched water table in the UGU during the reporting period was within the historical range of values and has been unaffected by the shutdown of the groundwater extraction system.

Figure 2 depicts the perched water table as measured on July 18, 2007. Groundwater in the perched water table primarily flows to the west, consistent with previous measurements and interpretations.

3.2.2 Lower Groundwater System

The cessation of pumping of the extraction wells, which drew groundwater from the lower groundwater system (LGS), did not result in appreciable changes in the direction of groundwater flow or in the vertical components of groundwater flow in the LGS.

The LGS is made up of two units, the lower granular unit (LGU) and the Niagaran carbonate bedrock unit. To the north and west of the LL and LTR, the water table surface is in the LGU, which overlies the bedrock. To the south and east of the LL and LTR, where the bedrock elevation rises, pinching out the LGU, the water table is in the bedrock.

The LGU is well connected to the bedrock aquifer, as shown on the hydrographs (Appendix A). For most nested wells, the elevation of the water table (regardless of whether the water table observation well is completed in the LGU or bedrock) is nearly identical to the elevation of the potentiometric surface measured in piezometers completed in the upper bedrock. Because the units are well connected, the direction of groundwater flow in the LGU is similar to that in the bedrock.

Vertical gradients between deeper portions of bedrock and the overlying LGU and shallow bedrock are measured at sentinel well nest RM-2I/RM-2D and near-field (LTR) well nest RM-7D/RM-7XD, respectively. On July 18, 2007, the vertical gradient between the shallow bedrock and the deep bedrock at RM-7D/RM-7XD was slightly downward (0.001), and the vertical gradient between the LGU and bedrock at RM-2I/RM-2D was also downward (0.111). Within the LGU, an upward vertical gradient (0.024) was measured on July 18, 2007, between nested far-field wells RM-3I (shallow) and RM-3D (deep). The directions of gradient at these wells are consistent with past results, as is shown on the hydrographs. Table 9 presents the calculated vertical hydraulic gradients on July 18, 2007, for the sites' nested wells.

Figure 3 illustrates the potentiometric surface of the groundwater in the bedrock unit and shows that groundwater flows toward the north, consistent with historical conditions. Groundwater levels used for the interpretation were measured at water table observation wells completed in bedrock south and east of the LL and LTR sites and at piezometers completed in bedrock overlain by the LGU north and west of the landfills.

3.3 Monitored Natural Attenuation (MNA) Parameters

In accordance with the revised MNA Workplan (RMT, 2006c), samples of groundwater were collected in April 2007 (third round) and in July/August 2007 (fourth round) for field and

laboratory analysis of the MNA parameters listed in Table 4 and according to the proposed sampling schedule shown in Table 1. Appendix B contains tabulated summaries of the field- and laboratory-analyzed inorganic MNA parameters for the reporting period.

Many of the reported concentrations of MNA parameters for the reporting period are consistent with the previous quarterly results and present several lines of evidence that support the conclusion that the processes of aerobic abiotic degradation and/or anaerobic reductive dechlorination are ongoing at the sites. A summary of the spatial distribution of MNA parameters follows:

- DO is relatively depleted (< 1.0 mg/L) in the source area groundwater immediately north of the LTR and is further depleted (<0.5 mg/L) within the core of the plume of CVOCs that extends north of the LL to sentinel well RM-210D (0.39 mg/L in July 2007). Decreasing concentration trends for DO are evident at RM-7XD, at near-field (LTR) bedrock water table well RM-209D, at near-field (LL) shallow bedrock piezometer RM-214D, and at far-field shallow bedrock piezometer RM-214D.

Although the high end of the range of reported DO concentrations is above what is expected for groundwater, a comparison of the distribution of DO to the distribution of oxidation reduction potential (ORP) and dissolved carbon dioxide (CO_2) suggests that a qualitative evaluation of the DO data can be supported. Where DO is apparently lower (and possibly depleted), the ORP is also lower (<250 mV) and dissolved carbon dioxide (CO_2) is higher. DO is consumed, CO_2 is generated, and lower ORP is expected in groundwater where microbial biodegradation of CVOCs is taking place.

- The concentration of dissolved CO_2 in groundwater is elevated (>300 mg/L) beneath the LTR and within the core of the plume of CVOCs that extends north of the LL to far-field well RM-204D. The reported concentrations of CO_2 at LGU water table well RM-204I (420 mg/L) and bedrock piezometer RM-204D (416 mg/L), on April 22, 2007, are elevated compared to historical results.
- The concentrations of **total inorganic carbon (TIC)** and **alkalinity** in groundwater at the near-field wells and along the centerline of the plume of CVOCs are elevated compared to background. At sentinel well RM-211D (shallow bedrock piezometer), the July 2007 result for TIC (100 mg/L) is higher than the July 2006 result (83 mg/l). Increases in TIC and alkalinity typically coincide with increases in dissolved CO_2 .
- Nitrate is depleted in groundwater at RM-7XD, which has shown an increasing concentration trend for both 1,1,1-TCA and TCE. Nitrate is used as an electron acceptor for anaerobic biodegradation, following depletion of DO.
- **Ferrous iron** was present in the near-field perched water table wells, but was generally absent from the far-field wells, suggesting a possible lack of iron in the LGU and bedrock.

- Dissolved manganese is reported at concentrations that are elevated compared to background in near-field perched water table wells RM-7S, RM-103S, RM-207S, RM-208S, and RM-302S and in near-field well RM-214D, far-field bedrock water table well RM-4D, and sentinel well RM-2D. Increases in the concentration of dissolved manganese can be an indicator of reducing conditions, because naturally occurring manganese can be chemically reduced and become dissolved in groundwater both as a result of natural processes and the anaerobic biodegradation of CVOCs.
 - Sulfate reduction is also occurring in groundwater at RM-7XD, where the concentration of sulfate on August 1, 2007 (6 mg/L), was an order of magnitude lower than at RM-7D (68 mg/L). Stable concentrations of sulfate have been reported at each well during the past year. Sulfate is used as an electron acceptor for anaerobic biodegradation, following the depletion of DO and nitrate.
- Increasing concentrations of sulfate are evident at several near-field wells and at far-field wells RM-204I and RM-204D. The increases in sulfate at these wells may be indicators of sulfate impacts to groundwater unrelated to biodegradation of the CVOC plume.
- Methane was detected in groundwater at RM-7D (86 µg/L), in July 2007. Methane had not previously been detected in groundwater in the LGU. The production of methane (methanogenesis) typically occurs after oxygen, nitrate, and sulfate have been depleted from groundwater.

3.4 Chlorinated VOCs

A brief discussion of the reported concentrations of selected CVOCs in groundwater at the LL and LTR sites is developed below, focusing first on the protection of receptors (residential water supply wells) and second on plume behavior. The results of residential well sampling during the period are noted; the reported detections of CVOCs at the sites' sentinel wells are compared to the calculated 95% upper confidence limits (UCLs); and the reported concentrations and historical trends for the chlorinated ethanes 1,1,1-TCA (parent) and 1,1-dichloroethane (DCA) (breakdown), and the chlorinated ethenes TCE (parent product or breakdown product of tetrachloroethene); cis-1,2-DCE; and 1,1-DCE (breakdown product of 1,1,1-TCA) are discussed. Other breakdown products, such as acetate, vinyl chloride (VC), and chloroethane (CEA), are rarely detected, if at all, and are not discussed.

Figures 4 and 5 illustrate the plume orientation and the isoconcentrations of the two CVOC parent compounds – TCE and 1,1,1- TCA – in bedrock in July 2007. Figures 6A and 6B are cross sections that contain trend plots of the historical concentrations of TCE (Figure 6A) and 1,1,1-TCA (Figure 6b), and the common breakdown products for selected wells along the plume axis. The trend plots presented on Figures 6A and 6B are reproduced in Appendix C.

3.4.1 Residential Wells

Samples of groundwater were collected from each of the 23 residential wells near the LL and LTR (Residential Well Group I and Group II) in March 2007 and June 2007, and were laboratory-analyzed for VOCs. CVOCs were not detected in the residential wells during the reporting period. False-positive detections of chloromethane were reported at three wells in March 2007; and acetone was detected at one well in June 2007. The detection of acetone is likely a result of laboratory contamination. Appendix B contains the laboratory analytical reports.

The historical false-positive detections of chloromethane are likely due to chemical reaction with the hydrochloric acid with which the water samples are preserved. This reaction was briefly mentioned in the United States Geological Survey (USGS) Open File Report 97-829 (1998). To avoid the false-positive results, the residential well samples will be collected in unpreserved vials, beginning with the fifth round of MNA sampling. The WDNR approved of this change in sampling protocol with a letter to RMT dated September 10, 2007; and the WDNR's notification letters (for residential well owners) have been amended to address the detections of chloromethane, with the following narrative, *"DNR and EPA have determined that this detect is a "false positive" result and is caused by a chemical reaction to a preservative that is used when sampling for VOCs. The sampling and preservation methodology has been changed to hopefully avoid this occurrence in the future."*

3.4.2 Sentinel Wells

The groundwater analytical results for the sentinel wells are evaluated as stated in Subsection 4.8.4 of the MNA Workplan. Consistent with past results, CVOCs were either not detected at concentrations above the laboratory Limit of Detection (LOD) or were detected at concentrations significantly below each sentinel well's respective 95% upper confidence limit (UCL). Appendix C contains the trend plots showing the historical concentrations of CVOCs and the calculated UCLs for each sentinel well.

The 95% UCLs are calculated as a "background limit" as defined by the mean plus 2 standard deviations, for the VOC constituents of concern. The entire historical data set for each individual well and parameter, through the July 2006 baseline sampling event, is used to calculate the UCLs. For data sets consisting of 100% nondetect results, no upper limit was calculated. For these wells and parameters, the Limit of Quantitation (LOQ) will be used as the background limit.

During the reporting period, 1,1,1-TCA was detected at sentinel wells RM-203D and RM-211D at concentrations greater than those reported during the two previous

quarterly MNA sampling events; however, because the MNA sampling data collected to date are representative of just 1 year (roughly four seasonal sampling events), a meaningful evaluation of this apparent trend is not possible. The limited data set cannot account for possible seasonal variation in the trend, and the data set is not of a sufficient length of time to indicate or predict long-term trends.

3.4.3 Concentration Trends

The historical trends and ratios of the concentrations/mass of 1,1,1-TCA and TCE relative to breakdown compounds 1,1-DCA and cis-1,2-DCE generally support the conclusion that biodegradation of the parent compounds is occurring in groundwater at the sites either through the processes of aerobic abiotic degradation and/or anaerobic reductive dechlorination. A summary of the evidence supporting degradation follows:

- Overall, the ratio of the concentration of the breakdown product cis-1,2-DCE in groundwater is greater than that of the parent compound TCE, while the concentration of the parent compound 1,1,1-TCA is typically stable or slightly decreasing relative to 1,1-DCA.
- Steadily declining concentrations of 1,1,1-TCA and TCE are evident in the shallow portion of the groundwater plume that extends north of the LTR. The long-term decreasing trends occur in near-field water table wells screened in the bedrock (RM-303D, RM-209D, RM-8D), and in water table wells screened in the LGU north of the LTR (near-field well RM-208I, far-field well RM-204I, and sentinel well RM-210I), in shallow piezometers screened in bedrock (near-field wells RM-208D, RM-5D, and far-field wells RM-103D and RM-204D), and at sentinel well RM-2D.
- Degradation of parent compounds in the source areas is evident in the long-term increasing trends of one or more of the breakdown compounds at near-field (LTR) wells RM-7D, RM-7XD, and RM-209D and at the LGU water table well RM-5I.
- Long-term decreasing trends of daughter compounds occur at near-field well RM-8D and well RM-5D, far-field shallow bedrock wells RM-103D and RM-204D, far-field LGU water table well RM-204I, and at sentinel wells RM-2D, RM-101D, and RM-210I.
- The historical detections of 1,2-DCE (total) were determined to be predominately cis-1,2-DCE; and, because the production of the cis-isomer in groundwater is overwhelmingly attributed to biotic processes (see Figure 8), the large ratio of the cis-isomer relative to the trans-isomer suggests that most of the cis-1,2-DCE in groundwater results from biologically mediated degradation of TCE.

A long-term increasing trend in the concentrations of 1,1,1-TCA and TCE is evident at near-field (LTR) bedrock well RM-7XD. Two lines of evidence suggest that the plume

probably does not extend substantially deeper than RM-7XD. First, vertically between RM-7D and RM-7XD, a separation of approximately 70 feet, the groundwater VOC concentrations decrease by an order of magnitude. Second, VOCs have not been detected in downgradient residential wells that draw water from the aquifer beneath the plume (downgradient and deeper). The deeper migration of VOCs, therefore, does not represent an unacceptable risk to the downgradient residential wells.

No other wells at the sites show long-term increasing trends for both parent compounds. The concentration trends at RM-7XD will continue to be monitored and will be further evaluated in the next report.

Section 4

Summary and Conclusions

The data collected during this reporting period, which include the third (April 2007) and fourth (July/August 2007) MNA sampling events, together with the collective data set, which includes the baseline (July 2006) and the first two of eight quarterly groundwater sampling events (September 2006 and December 2006), effectively demonstrate that biodegradation of the 1,1,1-TCA and TCE plume is occurring in the LGS at the LL and LTR.

The shutdown of the pump-and-treat system on August 1, 2006, has not caused significant expansion of the plume margins, nor has it placed residential wells at risk. CVOCs were not detected in samples of groundwater collected from the 23 residential water supply wells during the reporting period; and, at the sites' sentinel wells, CVOCs were either not detected or were detected at concentrations significantly below the UCLs. The groundwater elevations and flow directions are consistent with prepumping conditions, and the orientation of the plume of CVOCs has not changed.

Consistent with microbial biodegradation of 1,1,1-TCA and TCE, the concentrations of nitrate and sulfate are reduced in groundwater beneath the LTR. Within the core of the plume, the concentration of CO₂ is elevated and the concentration of DO and ORP are generally lower, compared to groundwater outside the plume. Methane was detected at near-field bedrock well RM-7D; and, at nested deep bedrock well RM-7XD, nitrate and sulfate reduction is especially pronounced. The production of methane (methanogenesis) typically occurs after oxygen, nitrate, and sulfate have been depleted from groundwater and suggests that the processes of reductive dechlorination are well established in groundwater beneath the LTR.

Breakdown products of both TCE and 1,1,1-TCA are present in downgradient and source-area monitoring wells, providing direct evidence of reductive dechlorination. Attenuation of the CVOC plume is further evident in the long-term decreasing trends in the concentrations of 1,1,1-TCA and TCE in shallow groundwater at the LTR and in the long-term increasing trends in the concentrations of breakdown compounds in groundwater at near-field wells.

Overall, the findings of the MNA demonstration project to date are positive. Importantly, 1,1,1-TCA and TCE have not been detected in sentinel wells above the UCLs. Slight increasing concentrations of 1,1,1-TCA noted at sentinel wells during the reporting period may prove to be seasonal variations and short-lived; and, in future rounds, the concentration trends for CVOCs at the sentinel wells may behave similarly to those for the near-field wells RM-5D and RM-208D, where an initial rebound in CVOC concentrations was followed quickly with a return

to the long-term decreasing trends. Increasing trends of 1,1,1-TCA and TCE that occur at near-field well RM-7XD will continue to be evaluated over the long term.

No changes to the MNA sampling program are warranted at this time. A third semiannual report will be submitted in July 2007 following completion of the fourth and fifth MNA sampling rounds.

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Table 1
Proposed Groundwater Monitoring Program for MNA Demonstration Project - Revised Sampling Schedule (Project Years 1 and 2)
Lemberger Sites

WELL GROUP	PROJECT YEAR 1												PROJECT YEAR 2												
	MONTH NUMBER												MONTH NUMBER												
1	2 (Sep)	3	4	5 (Dec)	6	7	8 (Mar)	9	10	11 (Jun)	12	1	2 (Sep)	3	4	5 (Dec)	6	7	8 (Mar)	9	10	11 (Jun)	12		
IA		V&M (MNA)			V&M (MNA)			V&M (MNA)			V&M (MNA)			V&M (MNA)			V&M (MNA)			V&M (MNA)			V&M (MNA)		
IB (Note 1)		V&M (MNA)			V&M (MNA)			V&M (MNA)			V&M S/P/C (MNA)			V&M (MNA)			V&M (MNA)			V&M (MNA)			V&M S/P/C (MNA)		
IIA		V&M (MNA)					V&M (MNA)						V&M (MNA)							V&M (MNA)					
IIB (Note 2)		V&M (MNA)			(V)			V&M (MNA)			(V) S/P/C			V&M (MNA)			(V)			V&M (MNA)			(V) S/P/C		
IIIA											V&M (MNA)												V&M (MNA)		
IIIB (Note 2)		(V)			(V)			(V)			V&M S/P/C (MNA)			(V)			(V)			(V)			V&M S/P/C (MNA)		
IV											(V) (MNA)												(V) (MNA)		
Metals Background Well (Note 3)																									
Residential Group I		V			V			V			V			V			V			V			V		
Residential Group II		(V)			V			(V)			(V)						V						(V)		

Abbreviations:

V&M = volatile organic compounds and metals.

S/P/C = semivolatile organic compounds, pesticides/PCBs, and cyanide.

MNA = monitored natural attenuation parameters.

V = volatile organic compounds only.

Notes:

1. Sampling of extraction wells is not included; however, groundwater elevation will be measured at each extraction well during each monitoring round.
2. Groundwater collection (GWC) sumps, including EW-6S, will not be sampled.
3. This well (RM-9D) was abandoned during the bedrock investigation drilling program in summer 2005.
4. Abbreviations shown in **bold** font in parentheses are analyses added to the currently approved monitoring program, for the MNA demonstration project. Abbreviations in nonbold font without parentheses are analyses required by the currently approved monitoring program.
5. The two monitoring wells that were constructed in September 2005 as part of the LTR bedrock investigation (RM-213D and RM-214D) will be sampled with Well Group IA.

Table 2
Currently Approved Groundwater Monitoring Program - Groundwater Sampling Frequency
Lemberger Sites

WELL GROUP	VOCs AND METALS	SVOCs, PEST/PCBs, CN	WATER LEVEL	VOCs ONLY	METALS ONLY
IA	Quarter	5 years	Month	--	--
IB	Quarter	Annual	Month	--	--
IIA	Semiannual	5 years	Month	--	--
IIB	Semiannual	Annual	Month	--	--
IIIA	Annual	5 years	Month	--	--
IIIB	Annual	Annual	Month	--	--
IV	5 years	5 years	Month	--	--
Metals Background Well			Month	--	Annual
Residential Group I	--	--	--	Quarter	--
Residential Group II	--	--	--	Annual	--

Table 3
 Lemberger Landfill Sites
 Groundwater Monitoring Program During 2-Year MNA Demonstration
 Well Group Designations

WELL GROUP												METALS	BKGND	RESIDUE	RESIDUE
IA	IB	IIA	IIA-1	IIB	IIB-1	III A	III A-1	III B	IV	WELL	GRP I	GRP II	GRP III	GRP IV	
RM-7D	RM-203D ⁽¹⁾	RM-2I	RM-3D ⁽³⁾	RM-2D ⁽¹⁾	RM-203I ⁽¹⁾⁽³⁾	RM-4D	RM-3I ⁽³⁾	RM-211D ⁽¹⁾	RM-4S	(2)	GR-13	GR-8			
RM-7XD	RM-210D ⁽¹⁾	RM-10D	RM-5S ⁽³⁾	RM-210I ⁽¹⁾		RM-11D	RM-7S ⁽³⁾				GR-26	GR-9			
RM-8D	RM-212I ⁽¹⁾	RM-101I	RM-5I ⁽³⁾			RM-102D	RM-206S ⁽³⁾				GR-27	GR-10			
RM-209D	RM-212D ⁽¹⁾	RM-101D	RM-5D ⁽³⁾			RM-201I	RM-207S ⁽³⁾				GR-31	GR-11			
RM-303D		RM-204I	RM-103S ⁽³⁾			RM-201D	RM-208S ⁽³⁾				GR-41	GR-12			
RM-306D		RM-204D	RM-103D ⁽³⁾			RM-202I	RM-208I ⁽³⁾				GR-60R	GR-14			
RM-307D		RM-304D	RM-208D ⁽³⁾			RM-202D	RM-301S ⁽³⁾					GR-15			
RM-213D		RM-305D					RM-302S ⁽³⁾					GR-16			
RM-214D		RM-308D					RM-205I ⁽³⁾					GR-17			
							RM-205D ⁽³⁾					GR-24			
												GR-25			
												GR-30			
												GR-33			
												GR-62			
												GR-63			
												GR-64			
												GR-65			

Notes:

(1) Sentinel well, sampled quarterly for quick-turn VOCs during MNA demonstration period.

(2) RM-9D & 103I abandoned.

(3) Well sampled and analyzed quarterly for VOCs and metals with the Group IA wells, during 24-month MNA demonstration period.

Table 4
Monitored Natural Attenuation Parameters, Analytical Methods, and Reporting Limits

GROUNDWATER PARAMETER	FIELD OR LABORATORY	METHOD	EQUIPMENT	LIMIT OF DETECTION (LOD)	LIMIT OF QUANTITATION (LOQ)
Alkalinity (total)	Field	Hach kit	Hach kit	10 mg/L as CaCO ₃ ⁽⁴⁾	N/A
Carbon dioxide	Field	Hach kit	Hach kit	1.25 mg/L	25 mg/L
Dissolved oxygen	Field	360.1 ⁽¹⁾	Probe	0.1 mg/L ⁽⁵⁾	N/A
Iron (II)	Field	8146 WAH	Hach kit	0.1 mg/L	N/A
Oxidation-reduction potential	Field	Standard methods ⁽²⁾	Electrode	N/A	N/A
pH	Field	150.1 ⁽¹⁾	Electrode	N/A	0.1 standard units
Specific conductivity	Field	120.1 ⁽¹⁾	Electrical conductivity meter	N/A	1 µmho/cm
Temperature	Field	--	Probe	N/A	0.1°C
Turbidity	Field	SM 2130B	Meter	NA	1 NTU
Alkalinity (total)	Laboratory	2320B ⁽²⁾	Per method	3.7 mg/L	10 mg/L
Chloride	Laboratory	300.0 ⁽¹⁾	Per method	0.88 mg/L	5.0 mg/L
Ethane	Laboratory	M8015B ⁽³⁾	Per method	1.6 µg/L	10 µg/L
Ethene	Laboratory	M8015B ⁽³⁾	Per method	1.4 mg/L	10 mg/L
Manganese	Laboratory	6020 ⁽³⁾	Per method	0.4 µg/L	2.0 µg/L
Methane	Laboratory	M8015B ⁽³⁾	Per method	2 µg/L	10 µg/L
Nitrate	Laboratory	300.0 ⁽¹⁾	Per method	0.078 mg/L	0.40 mg/L
Nitrite	Laboratory	300.0	Per method	0.46 mg/L	0.10 mg/L
pH	Laboratory	150.1 ⁽¹⁾	Electrode	N/A	0.1 standard units
Sulfate	Laboratory	300.0 ⁽¹⁾	Per method	0.83 mg/L	4.0 mg/L
Temperature	Laboratory	--	Thermometer	N/A	0.1°C
Total inorganic carbon	Laboratory	415.2 ⁽¹⁾	Per method	0.80 mg/L	2.0 mg/L

Table 4 (continued)
Monitored Natural Attenuation Parameters, Analytical Methods, and Reporting Limits

GROUNDWATER PARAMETER	FIELD OR LABORATORY	METHOD	EQUIPMENT	LIMIT OF DETECTION (LOD)	LIMIT OF QUANTITATION (LOQ)
Total organic carbon	Laboratory	415.2 ⁽¹⁾	Per method	0.80 mg/L	2.0 mg/L

Notes:

- (1) USEPA 600/4-79-020, Methods for Chemical Analysis of Water and Waste.
- (2) Standard Methods for the Examination of Water and Wastewater, 19th Edition, 1995.
- (3) SW-846, Test Methods for Evaluating Solid Waste, Physical and Chemical Methods, USEPA, 3^d Edition, 1986.
- (4) Based on Hach Method 8203 digital titration.
- (5) Based on typical field meter and dissolved oxygen probe with a resolution of 0.01 mg/L and used under normal field operating conditions.

N/A = not applicable.

Table 5
Water Sample Containers, Preservatives, and Holding Times for Monitored Natural Attenuation Parameters

PARAMETER	CONTAINER	MINIMUM SAMPLE VOLUME	FIELD PRESERVATION METHOD	HOLDING TIME ⁽¹⁾
Alkalinity, sulfate	One 250-mL high-density polyethylene bottle ⁽³⁾	120 mL	Cool to 4°C	14 days (alkalinity) 28 days (sulfate)
Methane, ethane, and ethene	Three 40-mL VOA vials with Teflon® septum ⁽²⁾	One x 40-mL VOA vial	Cool to 4°C, and add HCl to pH < 2; protect from light	7 days if unpreserved; 14 days if preserved (sample should remain on-site less than 24 hours)
Nitrate+nitrite nitrogen	One 250-mL high-density polyethylene bottle ⁽³⁾	75 mL	Cool to 4°C, and add H ₂ SO ₄ to pH < 2	28 days
Temperature, E _H , pH, specific conductivity, dissolved oxygen, ferrous iron, ORP, alkalinity (field)	--	--	--	Immediately after sample collection
Manganese	One 250-mL high-density polyethylene bottle ⁽³⁾	50 mL	Cool to 4°C, and add HNO ₃ to pH < 2	6 months
Total organic carbon, total inorganic carbon	Two 60-mL glass bottles	Bottles must be filled	Cool to 4°C, no headspace; add H ₂ SO ₄ to pH < 2	28 days

Notes:

⁽¹⁾ Starting from time of sample collection.

⁽²⁾ Collect three extra containers for MS/MSD samples.

⁽³⁾ Collect one extra container for sample spike and duplicate analyses.

Table 6
Summary of Volatile Organic Groundwater Standard Exceedences at
Plume Monitoring Wells
Lemberger Landfill Sites
January - August 2007

WELL ID	SAMPLE DATE	PARAMETER	RESULT ($\mu\text{g/L}$)	DATA QUALIFIERS	STANDARD ⁽¹⁾ ($\mu\text{g/L}$)	PAL ⁽³⁾ ES ⁽²⁾	EXCEEDENCE ES	PAL
RM-003D	4/10/2007	1,1,1-Trichloroethane	42		200	40		X
RM-003D	7/27/2007	1,1,1-Trichloroethane	57		200	40		X
RM-003D	4/10/2007	1,1-Dichloroethene	3.4		7	0.7		X
RM-003D	7/27/2007	1,1-Dichloroethene	4.2		7	0.7		X
RM-003D	4/10/2007	cis-1,2-Dichloroethene	7.3		70	7		X
RM-003D	7/27/2007	cis-1,2-Dichloroethene	10		70	7		X
RM-003D	4/10/2007	Trichloroethene	3.8		5	0.5		X
RM-003D	7/27/2007	Trichloroethene	4.8		5	0.5		X
RM-003D DUP	7/27/2007	1,1,1-Trichloroethane	57		200	40		X
RM-003D DUP	7/27/2007	1,1-Dichloroethene	4.2		7	0.7		X
RM-003D DUP	7/27/2007	cis-1,2-Dichloroethene	11		70	7		X
RM-003D DUP	7/27/2007	Trichloroethene	4.9		5	0.5		X
RM-005D	4/23/2007	1,1-Dichloroethene	3.1		7	0.7		X
RM-005D	7/27/2007	1,1-Dichloroethene	3.0		7	0.7		X
RM-005D	4/23/2007	cis-1,2-Dichloroethene	9.0		70	7		X
RM-005D	7/27/2007	cis-1,2-Dichloroethene	9.0		70	7		X
RM-005D	4/23/2007	Trichloroethene	3.4		5	0.5		X
RM-005D	7/27/2007	Trichloroethene	3.2		5	0.5		X
RM-005I	4/23/2007	1,1-Dichloroethene	1.2	Q	7	0.7		X
RM-005I	7/27/2007	1,1-Dichloroethene	0.98	Q	7	0.7		X
RM-005I	4/23/2007	Trichloroethene	1.8		5	0.5		X
RM-005I	7/27/2007	Trichloroethene	1.4	Q	5	0.5		X
RM-005S	4/23/2007	Trichloroethene	1.9		5	0.5		X
RM-005S	7/27/2007	Trichloroethene	2.4		5	0.5		X
RM-007D	4/24/2007	1,1,1-Trichloroethane	680		200	40	X	
RM-007D	8/1/2007	1,1,1-Trichloroethane	610		200	40	X	
RM-007D	4/24/2007	1,1-Dichloroethene	380		850	85		X
RM-007D	8/1/2007	1,1-Dichloroethene	400		850	85		X
RM-007D	4/24/2007	1,1-Dichloroethene	50		7	0.7	X	

Table 6 (continued)
Summary of Volatile Organic Groundwater Standard Exceedences at
Plume Monitoring Wells
Lemberger Landfill Sites
January - August 2007

WELL ID	SAMPLE DATE	PARAMETER	RESULT ($\mu\text{g/L}$)	DATA QUALIFIERS	STANDARD ⁽¹⁾ ($\mu\text{g/L}$)	ES ⁽²⁾	PAL ⁽³⁾	EXCEEDENCE ES	PAL
RM-007D	8/1/2007	1,1-Dichloroethene	38		7	0.7	X		
RM-007D	4/24/2007	cis-1,2-Dichloroethene	140		70	7	X		
RM-007D	8/1/2007	cis-1,2-Dichloroethene	140		70	7	X		
RM-007D	4/24/2007	Tetrachloroethene	4.9	Q	5	0.5		X	
RM-007D	8/1/2007	Tetrachloroethene	4.8	Q	5	0.5		X	
RM-007D	4/24/2007	Trichloroethene	37		5	0.5	X		
RM-007D	8/1/2007	Trichloroethene	41		5	0.5	X		
RM-007D	4/24/2007	Vinyl chloride	2.0	Q	0.2	0.02	X		
RM-007S	8/1/2007	Vinyl chloride	0.22	Q	0.2	0.02	X		
RM-007XD	4/24/2007	1,1,1-Trichloroethane	170		200	40		X	
RM-007XD	8/1/2007	1,1,1-Trichloroethane	110		200	40		X	
RM-007XD	4/24/2007	1,1-Dichloroethane	88		850	85		X	
RM-007XD	4/24/2007	1,1-Dichloroethene	36		7	0.7	X		
RM-007XD	8/1/2007	1,1-Dichloroethene	21		7	0.7	X		
RM-007XD	4/24/2007	cis-1,2-Dichloroethene	120		70	7	X		
RM-007XD	8/1/2007	cis-1,2-Dichloroethene	78		70	7	X		
RM-007XD	4/24/2007	Trichloroethene	38		5	0.5	X		
RM-007XD	8/1/2007	Trichloroethene	24		5	0.5	X		
RM-008D	4/9/2007	1,1,1-Trichloroethane	41		200	40		X	
RM-008D	4/9/2007	1,1-Dichloroethene	1.8	Q	7	0.7		X	
RM-008D	8/1/2007	1,1-Dichloroethene	0.95	Q	7	0.7		X	
RM-008D	4/9/2007	cis-1,2-Dichloroethene	12		70	7		X	
RM-008D	8/1/2007	cis-1,2-Dichloroethene	8.2		70	7		X	
RM-008D	4/9/2007	Trichloroethene	3.7		5	0.5		X	
RM-008D	8/1/2007	Trichloroethene	2.0		5	0.5		X	
RM-008D DUP	8/1/2007	cis-1,2-Dichloroethene	7.5		70	7		X	
RM-008D DUP	8/1/2007	Trichloroethene	2.0		5	0.5		X	
RM-101D	4/9/2007	Trichloroethene	1.3	Q	5	0.5		X	
RM-103D	4/17/2007	1,1-Dichloroethene	1.4	Q	7	0.7		X	

Table 6 (continued)
Summary of Volatile Organic Groundwater Standard Exceedences at
Plume Monitoring Wells
Lemberger Landfill Sites
January - August 2007

WELL ID	SAMPLE DATE	PARAMETER	RESULT ($\mu\text{g/L}$)	DATA QUALIFIERS	STANDARD ⁽¹⁾ ($\mu\text{g/L}$)		EXCEEDENCE ⁽²⁾	
					ES ⁽²⁾	PAL ⁽³⁾	ES	PAL
RM-103D	8/3/2007	1,1-Dichloroethene	0.87	Q	7	0.7		X
RM-103D	4/17/2007	Trichloroethene	1.8		5	0.5		X
RM-103D	8/3/2007	Trichloroethene	1.2	Q	5	0.5		X
RM-103S	4/17/2007	cis-1,2-Dichloroethene	7.7		70	7		X
RM-103S	4/17/2007	Trichloroethene	1.2	Q	5	0.5		X
RM-103S	8/3/2007	Trichloroethene	0.79	Q	5	0.5		X
RM-103S	4/17/2007	Vinyl chloride	1.9		0.2	0.02	X	
RM-103S	8/3/2007	Vinyl chloride	1.1		0.2	0.02	X	
RM-203D	4/10/2007	Trichloroethene	0.70	Q	5	0.5		X
RM-203D	7/30/2007	Trichloroethene	0.68	Q	5	0.5		X
RM-204D	4/22/2007	1,1-Dichloroethene	0.90	Q	7	0.7		X
RM-204D	4/22/2007	Trichloroethene	1.3	Q	5	0.5		X
RM-204D DUP	4/22/2007	1,1-Dichloroethene	0.89	Q	7	0.7		X
RM-204D DUP	4/22/2007	Trichloroethene	1.3	Q	5	0.5		X
RM-204I	4/22/2007	1,1-Dichloroethene	0.86	Q	7	0.7		X
RM-204I	4/22/2007	Trichloroethene	1.2	Q	5	0.5		X
RM-207S	4/20/2007	Benzene	1.0	Q	5	0.5		X
RM-207S	8/2/2007	Benzene	1.1	Q	5	0.5		X
RM-208D	4/23/2007	1,1-Dichloroethene	2.3		7	0.7		X
RM-208D	7/27/2007	1,1-Dichloroethene	2.1		7	0.7		X
RM-208D	4/23/2007	cis-1,2-Dichloroethene	7.6		70	7		X
RM-208D	4/23/2007	Trichloroethene	3.2		5	0.5		X
RM-208D	7/27/2007	Trichloroethene	2.8		5	0.5		X
RM-208S	4/23/2007	Benzene	0.83	Q	5	0.5		X
RM-209D	4/19/2007	1,1,1-Trichloroethane	300		200	40	X	
RM-209D	8/1/2007	1,1,1-Trichloroethane	250		200	40	X	
RM-209D	4/19/2007	1,1-Dichloroethane	130		850	85		X
RM-209D	8/1/2007	1,1-Dichloroethane	110		850	85		X
RM-209D	4/19/2007	1,1-Dichloroethene	17		7	0.7	X	

Table 6 (continued)
Summary of Volatile Organic Groundwater Standard Exceedences at
Plume Monitoring Wells
Lemberger Landfill Sites
January - August 2007

WELL ID	SAMPLE DATE	PARAMETER	RESULT ($\mu\text{g/L}$)	DATA QUALIFIERS	STANDARD ⁽¹⁾ ($\mu\text{g/L}$)	PAL ⁽³⁾	EXCEEDENCE ES	PAL
RM-209D	8/1/2007	1,1-Dichloroethene	12		7	0.7	X	
RM-209D	4/19/2007	cis-1,2-Dichloroethene	29		70	7		X
RM-209D	8/1/2007	cis-1,2-Dichloroethene	24		70	7		X
RM-209D	4/19/2007	Tetrachloroethene	2.1	Q	5	0.5		X
RM-209D	4/19/2007	Trichloroethene	13		5	0.5	X	
RM-209D	8/1/2007	Trichloroethene	10		5	0.5	X	
RM-210D	4/16/2007	1,1-Dichloroethene	2.1		7	0.7		X
RM-210D	7/24/2007	1,1-Dichloroethene	2.4		7	0.7		X
RM-210D	4/16/2007	Trichloroethene	4.2		5	0.5		X
RM-210D	7/24/2007	Trichloroethene	3.9		5	0.5		X
RM-210I	4/16/2007	1,1-Dichloroethene	0.86	Q	7	0.7		X
RM-210I	7/24/2007	1,1-Dichloroethene	1.2	Q	7	0.7		X
RM-210I	4/16/2007	Trichloroethene	2.0		5	0.5		X
RM-210I	7/24/2007	Trichloroethene	2.2		5	0.5		X
RM-213D	4/22/2007	Trichloroethene	1.3	Q	5	0.5		X
RM-213D	7/31/2007	Trichloroethene	1.4	Q	5	0.5		X
RM-214D	4/22/2007	1,1-Dichloroethene	1.8	Q	7	0.7		X
RM-214D	7/31/2007	1,1-Dichloroethene	1.8	Q	7	0.7		X
RM-214D	4/22/2007	cis-1,2-Dichloroethene	45		70	7		X
RM-214D	7/31/2007	cis-1,2-Dichloroethene	41		70	7		X
RM-214D	4/22/2007	Trichloroethene	5.1		5	0.5	X	
RM-214D	7/31/2007	Trichloroethene	5.2		5	0.5	X	
RM-214D	4/22/2007	Vinyl chloride	2.1		0.2	0.02	X	
RM-214D	7/31/2007	Vinyl chloride	2.0		0.2	0.02	X	
RM-303D	4/19/2007	1,1,1-Trichloroethane	950		200	40	X	
RM-303D	8/1/2007	1,1,1-Trichloroethane	1200		200	40	X	
RM-303D	4/19/2007	1,1-Dichloroethane	750		850	85		X
RM-303D	8/1/2007	1,1-Dichloroethane	980		850	85	X	
RM-303D	4/19/2007	1,1-Dichloroethene	48		7	0.7	X	

Table 6 (continued)
Summary of Volatile Organic Groundwater Standard Exceedences at
Plume Monitoring Wells
Lemberger Landfill Sites
January - August 2007

WELL ID	SAMPLE DATE	PARAMETER	RESULT ($\mu\text{g/L}$)	DATA QUALIFIERS	STANDARD ⁽¹⁾ ($\mu\text{g/L}$)	ES ⁽²⁾	PAL ⁽³⁾	EXCEEDENCE ES	PAL
RM-303D	8/1/2007	1,1-Dichloroethene	48		7	0.7	X		
RM-303D	4/19/2007	cis-1,2-Dichloroethene	330		70	7	X		
RM-303D	8/1/2007	cis-1,2-Dichloroethene	370		70	7	X		
RM-303D	4/19/2007	Tetrachloroethene	6.4	Q	5	0.5	X		
RM-303D	8/1/2007	Tetrachloroethene	6.4	Q	5	0.5	X		
RM-303D	4/19/2007	Trichloroethene	120		5	0.5	X		
RM-303D	8/1/2007	Trichloroethene	120		5	0.5	X		
RM-305D	4/19/2007	Trichloroethene	1.1	Q	5	0.5		X	
RM-306D	4/24/2007	1,1,1-Trichloroethane	250		200	40	X		
RM-306D	8/3/2007	1,1,1-Trichloroethane	150		200	40		X	
RM-306D	4/24/2007	1,1-Dichloroethene	9.6		7	0.7	X		
RM-306D	8/3/2007	1,1-Dichloroethene	5.8		7	0.7		X	
RM-306D	4/24/2007	Tetrachloroethene	1.4	Q	5	0.5		X	
RM-306D	4/24/2007	Trichloroethene	6.8		5	0.5	X		
RM-306D	8/3/2007	Trichloroethene	4.6		5	0.5		X	
RM-306D DUP	8/3/2007	1,1,1-Trichloroethane	160		200	40		X	
RM-306D DUP	8/3/2007	1,1-Dichloroethene	4.1	Q	7	0.7		X	
RM-306D DUP	8/3/2007	Tetrachloroethene	1.2	Q	5	0.5		X	
RM-306D DUP	8/3/2007	Trichloroethene	5.0		5	0.5	X		
RM-307D	4/24/2007	1,1,1-Trichloroethane	72		200	40		X	
RM-307D	8/3/2007	1,1,1-Trichloroethane	72		200	40		X	
RM-307D	4/24/2007	1,1-Dichloroethene	2.6		7	0.7		X	
RM-307D	8/3/2007	1,1-Dichloroethene	2.5		7	0.7		X	
RM-307D	4/24/2007	Tetrachloroethene	0.51	Q	5	0.5		X	
RM-307D	4/24/2007	Trichloroethene	2.7		5	0.5		X	
RM-307D	8/3/2007	Trichloroethene	3.2		5	0.5		X	

Notes:

(1) Table includes exceedences where the reported concentration is between the Limit of Detection and the Limit of Quantitation (Q data qualifier).

(2) ES = Wisconsin Administrative Code NR140 Enforcement Standard.

(3) PAL = Wisconsin Administrative Code NR140 Preventive Action Limit.

Q = reported concentration is estimated between the Limit of Detection (LOD) and the Limit of Quantitation (LOQ).

Table 7
Summary of Groundwater Elevations
July 2006 - July 2007
MNA Demonstration Study

WELL	PRE-SHUTDOWN		POST-SHUTDOWN		
	7/5/2006	9/8/2006	12/6/2006	4/6/2007	7/18/2007
OW-101A	806.28	805.27	804.57	807.09	805.52
OW-101B	806.24	805.22	804.54	807.03	805.51
OW-102A	802.54	802.67	802.13	803.54	803.04
OW-102B	802.60	802.63	802.06	803.45	803.04
OW-102C	802.70	802.76	802.17	803.58	803.09
OW-102D	802.74	802.73	802.17	803.57	803.09
OW-103A	793.69	794.58	794.30	795.07	794.84
OW-103B	793.62	794.29	794.03	794.81	794.56
OW-104A	791.28	791.56	791.36	791.72	791.36
OW-104B	791.12	791.54	791.34	791.71	791.34
OW-104C	791.25	791.52	791.31	791.68	791.31
OW-104D	791.23	791.51	791.27	791.66	791.31
OW-104E	791.24	791.53	791.32	791.69	791.33
OW-104F	791.33	791.56	791.37	791.77	791.39
OW-104G	791.23	791.49	791.27	791.66	791.30
OW-104H	792.07	792.36	792.13	792.61	792.28
OW-105A	805.33	804.50	803.86	805.68	804.78
OW-105B	805.31	804.40	803.79	805.52	804.75
OW-106A	828.38	826.42	826.57	830.41	826.76
OW-106B	828.78	826.92	827.11	831.90	827.25
RM-001D	790.93	791.18	790.92	791.32	790.83
RM-001I	791.20	791.36	790.80	791.26	790.78
RM-002D	791.89	792.12	791.93	792.51	791.95
RM-002I	794.88	795.22	794.91	795.61	795.16
RM-003D	802.06	801.91	801.41	802.41	802.27
RM-003I	801.31	801.37	801.09	801.85	801.60
RM-004D	801.13	801.34	801.31	808.96	801.45
RM-004S	841.73	840.64	840.42	842.19	839.39
RM-005D	800.16	800.46	799.93	800.83	800.57
RM-005I	800.05	800.30	799.80	800.65	800.51
RM-005S	836.65	835.63	836.54	838.38	835.53
RM-007D	807.09	805.32	804.71	807.30	805.66
RM-007S	838.49	837.58	839.41	840.67	837.93
RM-007XD	806.87	805.43	804.61	807.07	805.63
RM-008D	807.46	805.99	805.12	807.01	806.23
RM-010D	794.44	794.90	794.63	795.57	794.44
RM-011D	843.64	845.41	848.67	844.94	842.33
RM-101D	805.70	804.91	803.99	805.91	805.19
RM-101I	805.82	805.03	804.11	806.03	805.31
RM-102D	845.12	838.68	832.45	841.07	835.26
RM-103D	800.17	800.17	799.74	800.51	800.27
RM-103S	842.14	840.20	840.08	844.68	839.96
RM-201D	805.56	804.69	803.99	805.98	804.76
RM-201I	805.57	804.69	803.99	805.97	804.79
RM-202D	803.20	802.69	802.15	803.91	802.72

Table 7 (continued)
Summary of Groundwater Elevations
July 2006 - July 2007
MNA Demonstration Study

WELL	PRE-SHUTDOWN		POST-SHUTDOWN		
	7/5/2006	9/8/2006	12/6/2006	1/4/2007	7/18/2007
RM-202I	803.10	802.74	802.21	803.95	802.79
RM-203D	790.86	791.25	790.89	791.66	791.03
RM-203I	792.19	792.40	792.42	792.68	792.23
RM-205D	805.81	804.98	804.03	805.98	804.83
RM-205I	805.75	804.92	803.97	805.92	804.77
RM-206S	834.00	833.34	834.65	835.89	833.41
RM-207S	830.66	829.52	831.06	833.84	829.74
RM-208D	800.50	800.70	800.19	801.21	800.89
RM-208I	800.65	800.85	800.31	801.36	801.04
RM-208S	826.89	825.74	826.86	829.75	825.53
RM-209D	807.16	805.51	803.94	807.73	805.72
RM-210D	795.42	795.76	795.61	796.12	796.10
RM-210I	794.77	795.01	794.89	795.42	795.33
RM-211D	802.57	802.77	802.23	803.68	803.11
RM-212D	805.09	803.44	803.74	805.56	803.57
RM-212I	805.20	803.40	805.41	808.82	804.31
RM-213D	NM	804.78	803.56	806.05	805.52
RM-214D	NM	805.06	804.28	806.00	805.84
RM-301S	849.68	847.22	848.17	853.73	847.24
RM-302S	849.30	849.06	851.38	852.15	848.38
RM-303D	807.35	805.85	805.63	807.71	806.64
RM-304D	848.47	843.15	839.61	851.02	844.31
RM-305D	814.13	810.12	808.01	811.87	809.68
RM-306D	813.13	808.59	806.77	812.49	808.08
RM-307D	807.19	805.36	804.77	807.58	805.59
RM-308D	814.27	809.29	807.13	813.60	808.53

Notes:

NM = not measured.

Table 8
Well Designations for Purposes of MNA Discussion
Lemberger Sites

BACKGROUND WELLS	NEAR-FIELD WELLS LTR LANDFILL	NEAR-FIELD WELLS LL LANDFILL	FAR-FIELD WELLS	SENTINEL WELLS
RM-11D	RM-7S	RM-5S	RM-1I	RM-2D
RM-102D	RM-7D	RM-5I	RM-1D	RM-203I
RM-205I	RM-7XD	RM-5D	RM-2I	RM-203D
RM-205D	RM-209D	MW-14	RM-3I	RM-210I
	RM-303D	MW-15R	RM-3D	RM-210D
	RM-304D	RM-206S	RM-4S	RM-211D
	RM-305D	RM-207S	RM-4D	RM-212I
	RM-306D	RM-208S	RM-10D	RM-212D
	RM-307D	RM-208I	RM-10I	
	RM-308D	RM-208D	RM-101D	
		RM-214D	RM-103I	
		RM-301S	RM-103D	
		RM-302S	RM-201I	
			RM-201D	
			RM-202I	
			RM-202D	
			RM-204I	
			RM-204D	
			RM-211I	
			RM-213D	

Table 9
Vertical Hydraulic Gradients on July 18, 2007
Lemberger Landfill and Lemberger Transport and Recycling Site
Town of Franklin, Wisconsin

WELL	SCREEN FORMATION	GROUNDWATER ELEVATION (h) ft.	REFERENCE ELEVATION (L) ft.	DELTA h (ft.)	DELTA L (ft.)	VERTICAL GRADIENT (i)	DIRECTION OF GRADIENT
OW-104A	LGU	791.36	785.40	0.02	14.40	0.001	Down
OW-104B	rock/LGU	791.34	771.00				
OW-104B	rock/LGU	791.34	771.00	-0.05	15.00	-0.003	Up
OW-104F	rock	791.39	756.00				
RM-001I	LGU?	790.78	775.50	-0.05	12.70	-0.004	Up
RM-001D	rock	790.83	762.80				
RM-002I	LGU?	795.16	766.00	3.21	28.90	0.111	Down
RM-002D	rock	791.95	737.10				
RM-003I	LGU	801.60	784.90	-0.67	28.20	-0.024	Up
RM-003D	LGU?	802.27	756.70				
RM-004S	UGU	839.39	839.39	37.94	44.99	0.843	Down
RM-004D	rock	801.45	794.40				
RM-005I	LGU	800.51	797.10	-0.06	42.50	-0.001	Up
RM-005D	rock	800.57	754.60				
RM-005S	UGU	835.53	835.53	35.02	38.43	0.911	Down
RM-005I	LGU	800.51	797.10				
RM-007D	rock	805.66	802.30	0.03	59.80	0.001	Down
RM-007XD	rock	805.63	742.50				
RM-007S	UGU	837.93	837.93	32.27	35.63	0.906	Down
RM-007D	rock	805.66	802.30				
RM-101I	LGU	805.31	782.80	0.12	19.90	0.006	Down
RM-101D	rock	805.19	762.90				
RM-103S	UGU	839.96	839.96	39.69	50.96	0.779	Down
RM-103D	rock	800.27	789.00				
RM-201I	LGU	804.79	763.90	0.03	13.80	0.002	Down
RM-201D	rock	804.76	750.10				
RM-202I	LGU?	802.79	776.60	0.07	17.40	0.004	Down
RM-202D	rock	802.72	759.20				
RM-203I	LGU?	792.23	789.70	1.20	20.80	0.058	Down
RM-203D	rock	791.03	768.90				
RM-205I	LGU?	804.77	771.20	-0.06	20.10	-0.003	Up
RM-205D	rock	804.83	751.10				
RM-208I	LGU?	801.04	794.70	0.15	16.80	0.009	Down
RM-208D	rock	800.89	777.90				
RM-208S	UGU	825.53	825.53	24.49	30.83	0.794	Down
RM-208I	LGU?	801.04	794.70				
RM-210I	LGU?	795.33	793.00	-0.77	26.10	-0.030	Up
RM-210D	rock	796.10	766.90				
RM-212I	LGU	804.31	779.90	0.74	19.8	0.037	Down
RM-212D	LGU	803.57	760.10				

Notes:

Vertical Gradient (i) = Delta h / Delta L; positive values indicate a downward hydraulic gradient.

Reference Point (L) for head measurements (h) is the water table for wells screened in the UGU, and the midpoint of the screened interval, including the sand filter pack, for piezometers.

Delta h = the distance between head measurements.

Delta L = the distance between reference points.

UGU = upper granular unit (perched aquifer).

LGU = lower granular unit.

rock = bedrock and lower granular unit.

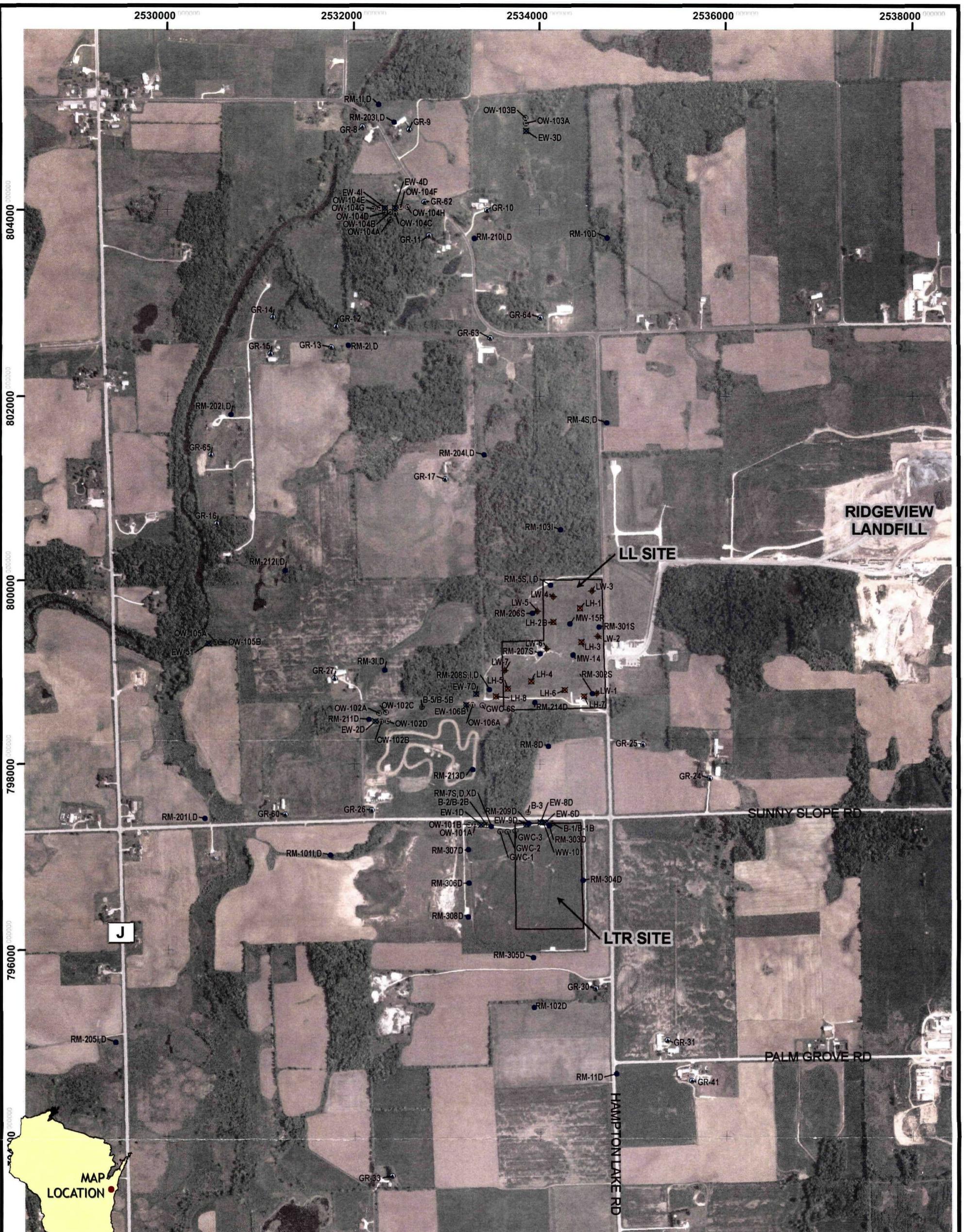
A gradient approaching 1 is indicative of the gradient between the perched aquifer and the bedrock aquifer.

Prepared by: LJB, 11/30/99

Checked by: SSM, 11/30/99

Updated by: THC, 11/21/07

Checked by: CLS 11/21/07



LEGEND

- SAMPLE AND MONITORING LOCATIONS
- BEDROCK BORING
- GW COLLECTION SUMP (GWC)
- ☒ GW EXTRACTION WELL (EW)
- GW OBSERVATION WELL (OW)
- ☒ LEACHATE HEAD WELL (LH)
- ◆ LEACHATE WITHDRAWL WELL (LW)
- MONITORING WELL (RM)
- ◎ RESIDENTIAL WELL (GW)



LANDFILL AREA

NOTES

- AERIAL IMAGERY FROM USDA - NATIONAL AGRICULTURE IMAGERY PROGRAM 2005.
- MAP COORDINATES REFERENCE WISCONSIN STATE PLANE, SOUTH ZONE, NAD 83, US SURVEY FOOT.



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1" EQUALS 1,000'
1:12,000

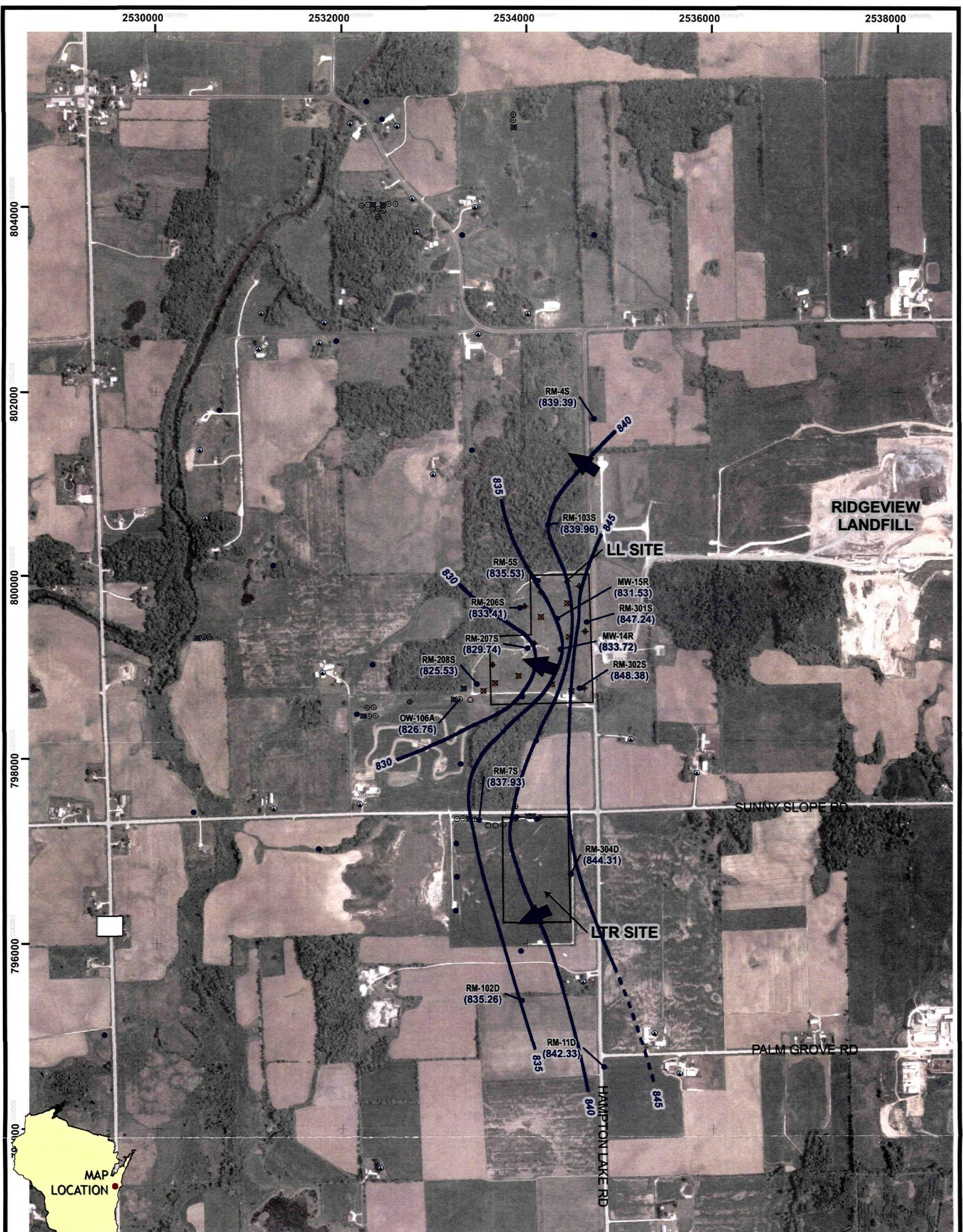
PROJECT: LEMBERGER LANDFILL AND LEMBERGER TRANSPORT AND RECYCLING SITES TOWN OF FRANKLIN, WISCONSIN

SHEET TITLE: MNA DEMONSTRATION STUDY SITE PLAN SHOWING ALL MONITORING POINTS

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CHECKED BY:	CLAUSEN T	AS NOTED	34564305.mxd
APPROVED BY:	WEDEKIND J	DATE PRINTED:	
DATE:	JANUARY 2008	1/23/2008	

FIGURE 1

RMT


LEGEND

- SAMPLE AND MONITORING LOCATIONS
- ⊕ BEDROCK BORING
 - GW COLLECTION SUMP (GWC)
 - ✖ GW EXTRACTION WELL (EW)
 - ◎ GW OBSERVATION WELL (OW)
 - ✖ LEACHATE HEAD WELL (LH)
 - ◆ LEACHATE WITHDRAWAL WELL (LW)
 - MONITORING WELL (RM)
 - RESIDENTIAL WELL (GW)
- LANDFILL AREA

-20 ELEVATION CONTOUR FT MSL, 2 FT
CONTOUR INTERVAL
(DASHED WHERE INFERRED)

PERCHED WATER TABLE WELL LOCATION AND
WATER TABLE ELEVATIONS (FT MSL)

**RM-11D
(842.33)**

INFERRED GROUNDWATER FLOW
DIRECTION

NOTES

1. AERIAL IMAGERY FROM USDA - NATIONAL AGRICULTURE IMAGERY PROGRAM 2005.
2. MAP COORDINATES ARE WISCONSIN STATE PLANE, SOUTH ZONE, NAD 83, US SURVEY FOOT.
3. WATER ELEVATIONS MEASURED JULY 18, 2007.

0 1,000
1" EQUALS 1,000'
1:12,000

PROJECT: **LEMBERGER LANDFILL AND LEMBERGER TRANSPORT AND RECYCLING SITES**
TOWN OF FRANKLIN, WISCONSIN

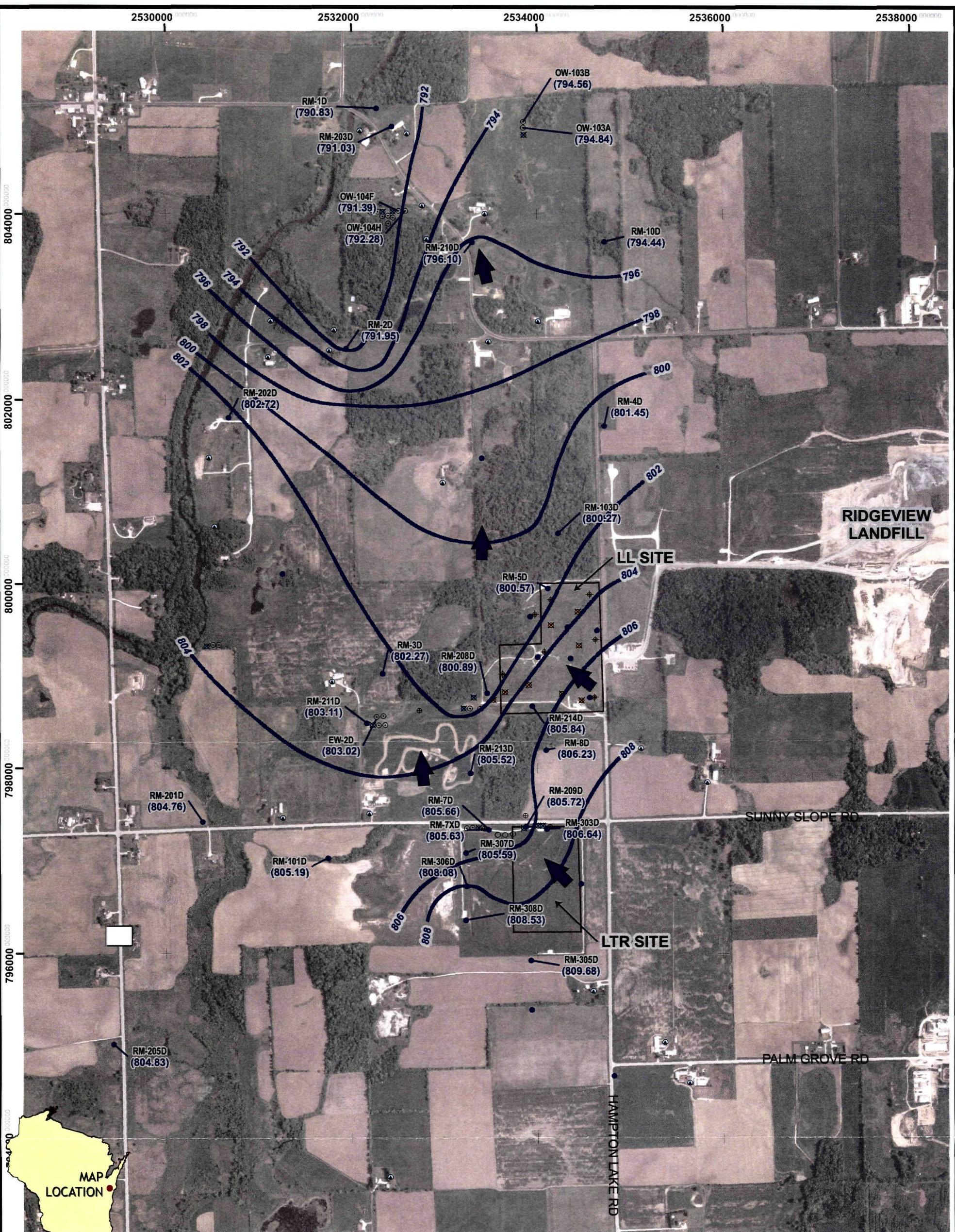
SHEET TITLE:

**PERCHED WATER TABLE
JULY 2007**

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CHECKED BY:	CLAUSEN T	AS NOTED	FILE NO.
APPROVED BY:	WEDEKIND J	DATE PRINTED:	
DATE:	JANUARY 2008	1/23/2008	

744 Heartland Trail
Madison, WI 53717-1934
P.O. Box 8923 53708-8923
Phone: 608-831-4444
Fax: 608-831-3334

RMT



PROJECT: LEMBERGER LANDFILL AND LEMBERGER TRANSPORT AND RECYCLING SITES TOWN OF FRANKLIN, WISCONSIN

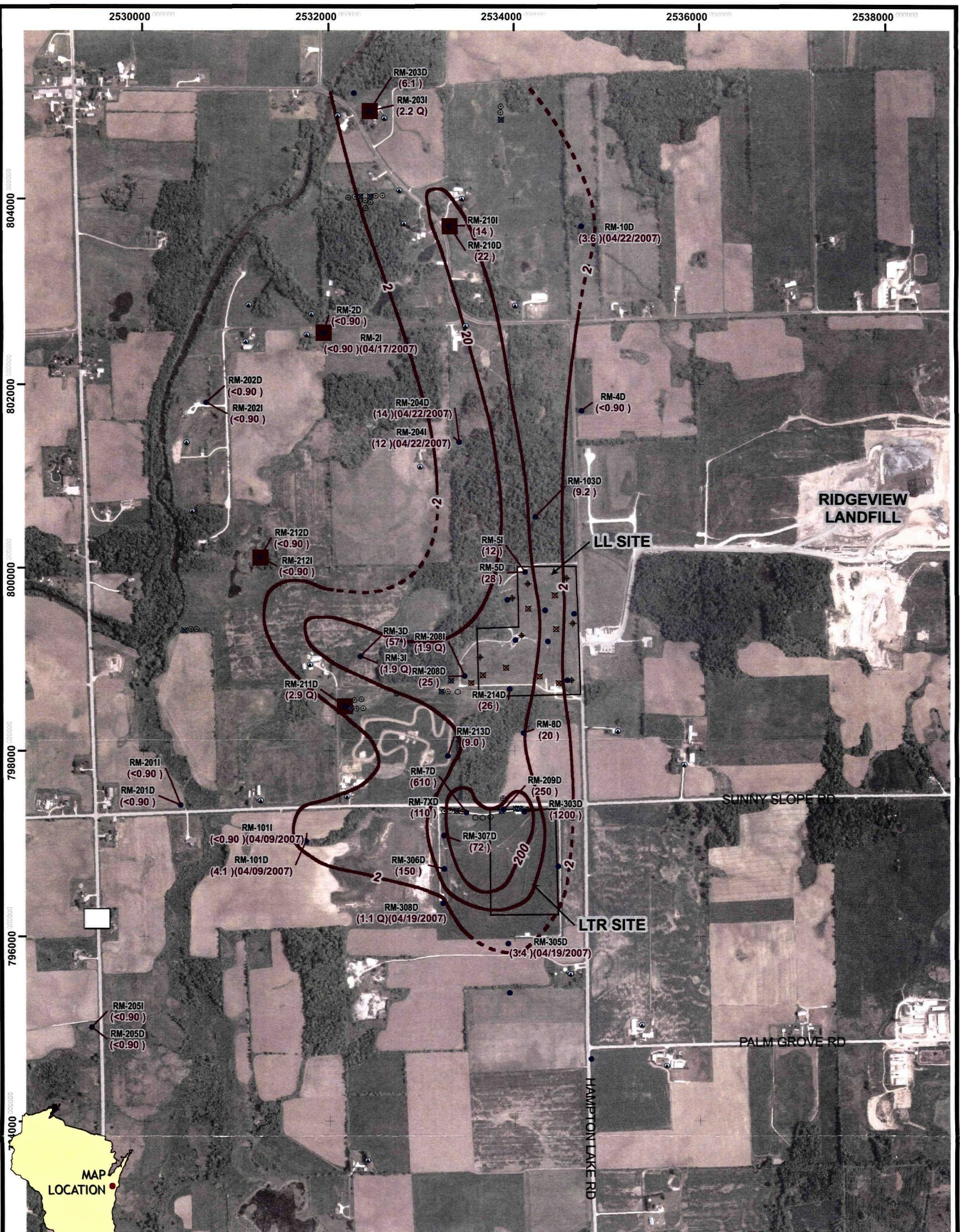
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CHECKED BY:	CLAUSEN T	AS NOTED	FILE NO.
APPROVED BY:	WEDEKIND J	DATE PRINTED:	
DATE:	JANUARY 2008	1/23/2008	

FIGURE 3

744 Heartland Trail
Madison, WI 53717-1934
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Fax: 608-831-3334

RMT



LEGEND

- SAMPLE AND MONITORING LOCATIONS
- ⊕ BEDROCK BORING
- GW COLLECTION SUMP (GWC)
- ✖ GW EXTRACTION WELL (EW)
- ◎ GW OBSERVATION WELL (OW)
- ✖ LEACHATE HEAD WELL (LH)
- ◆ LEACHATE WITHDRAW WELL (LW)
- MONITORING WELL (RM)
- RESIDENTIAL WELL (GW)
- LANDFILL AREA

-20- TCA ISO-CONCENTRATION
(DASHED WHERE INFERRED)

TCA SAMPLES USED FOR ISO-LINES
LABELS SHOW CONCENTRATION (UG/L) AND
SAMPLE DATE IF SAMPLE WAS TAKEN EARLIER
THAN JULY 2007

RM-208

(825.53)

SENTINEL WELLS

NOTES

1. AERIAL IMAGERY FROM USDA - NATIONAL AGRICULTURE IMAGERY PROGRAM 2005.
2. MAP COORDINATES REFERENCE WISCONSIN STATE PLANE, SOUTH ZONE, NAD 83, US SURVEY FOOT.
3. SEE TABLE B-5 FOR A LIST OF LAB AND DATA QUALIFIER CODES (Q = RESULT IS BETWEEN THE LOD AND LOQ).
4. TCA WAS NOT DETECTED IN PRIVATE WELL SAMPLES DURING THE REPORTING PERIOD; PRIVATE WELL RESULTS ARE NOT USED FOR CONTOURING.



0 1,000
1" EQUALS 1,000'
1:12,000

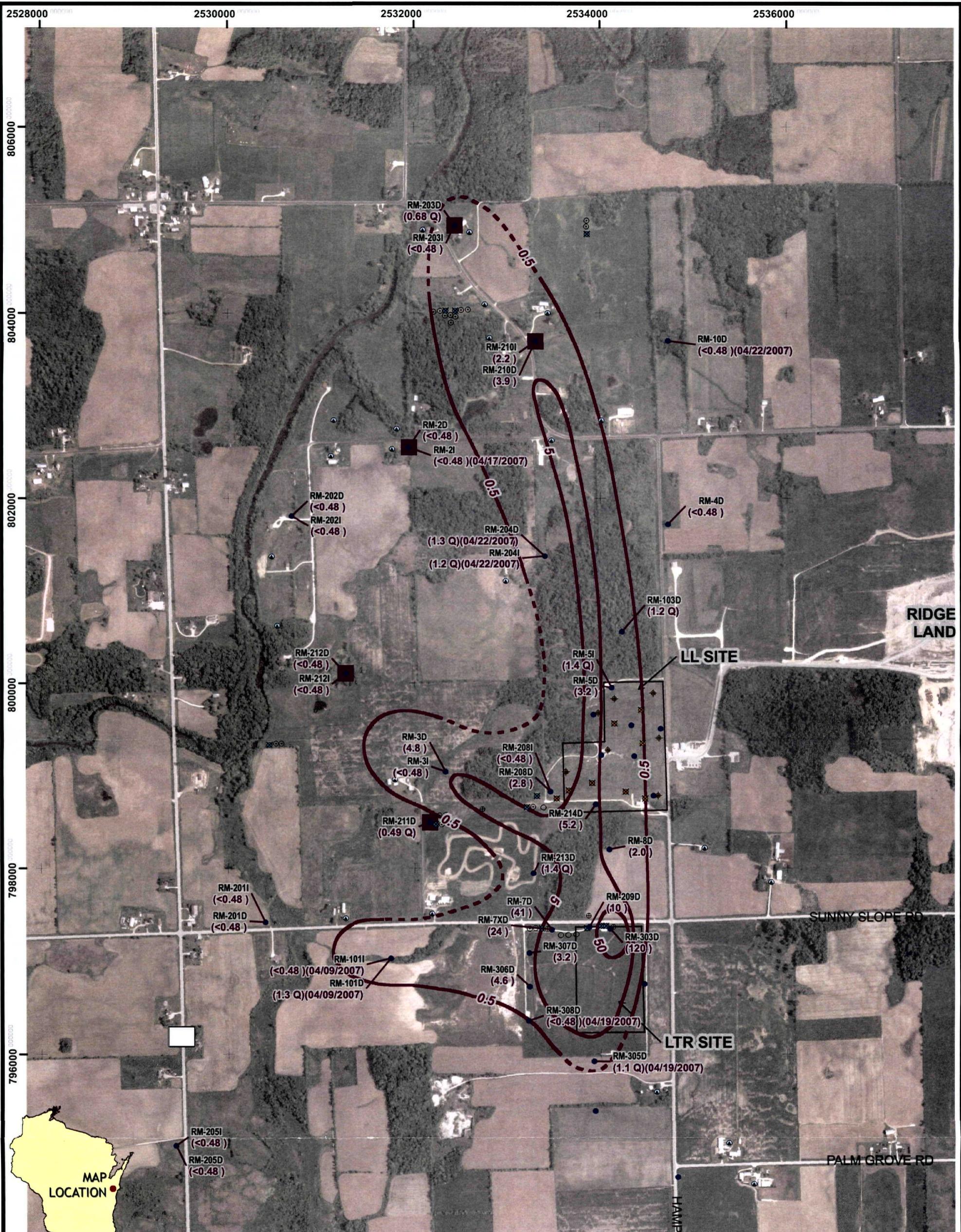
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TOWN OF FRANKLIN, WISCONSIN

SHEET TITLE:	1,1,1-TRICHLOROETHANE ISO-CONCENTRATIONS (UG/L) JULY/AUGUST 2007	
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CHECKED BY:	CLAUSEN T	AS NOTED
APPROVED BY:	WEDEKIND J	FILE NO. 34564301.mxd
DATE:	JANUARY 2008	DATE PRINTED: 1/23/2008

FIGURE 4

744 Heartland Trail
Madison, WI 53717-1934
P.O. Box 8923 53708-8923
Phone: 608-831-4444
Fax: 608-831-3334

RMT



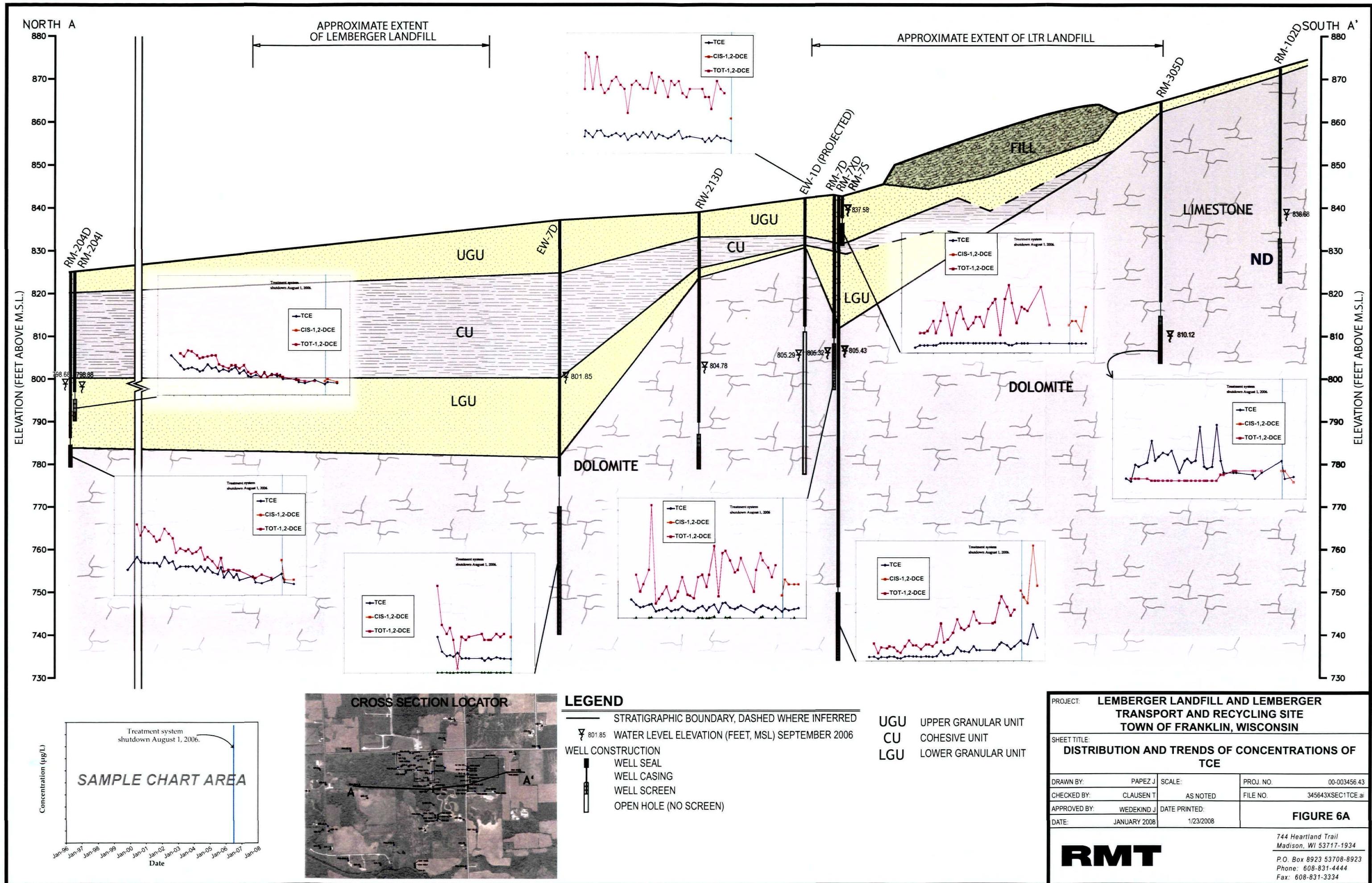
**PROJECT: LEMBERGER LANDFILL AND LEMBERGER TRANSPORT AND RECYCLING SITES
TOWN OF FRANKLIN, WISCONSIN**

SHEET TITLE: TRICHLOROETHENE ISO-CONCENTRATIONS (UG/L) JULY/AUGUST 2007			
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CHECKED BY:	CLAUSEN T	AS NOTED	FILE NO. 34564302.mxd
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DATE:	JANUARY 2008	1/23/2008	

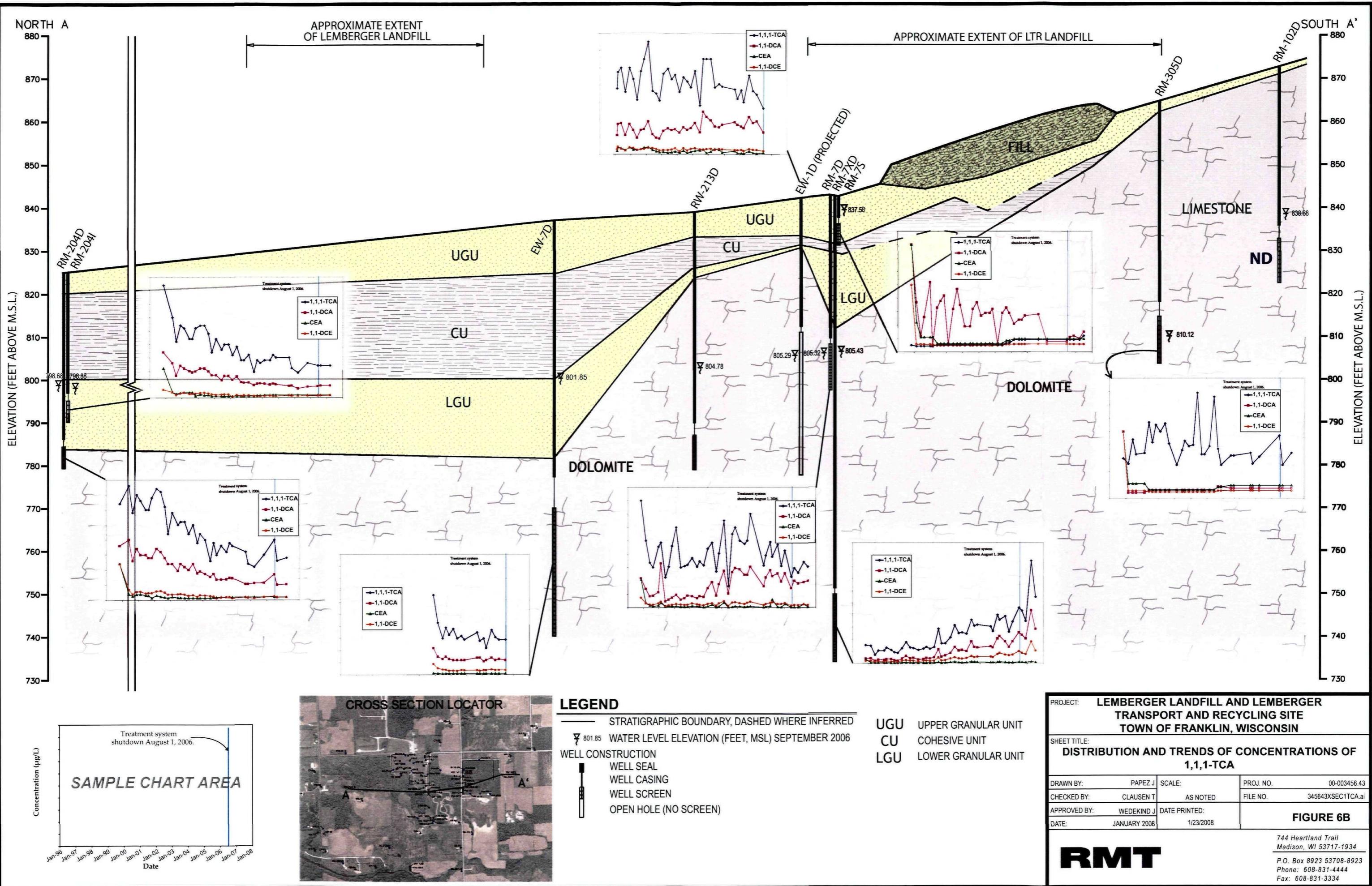
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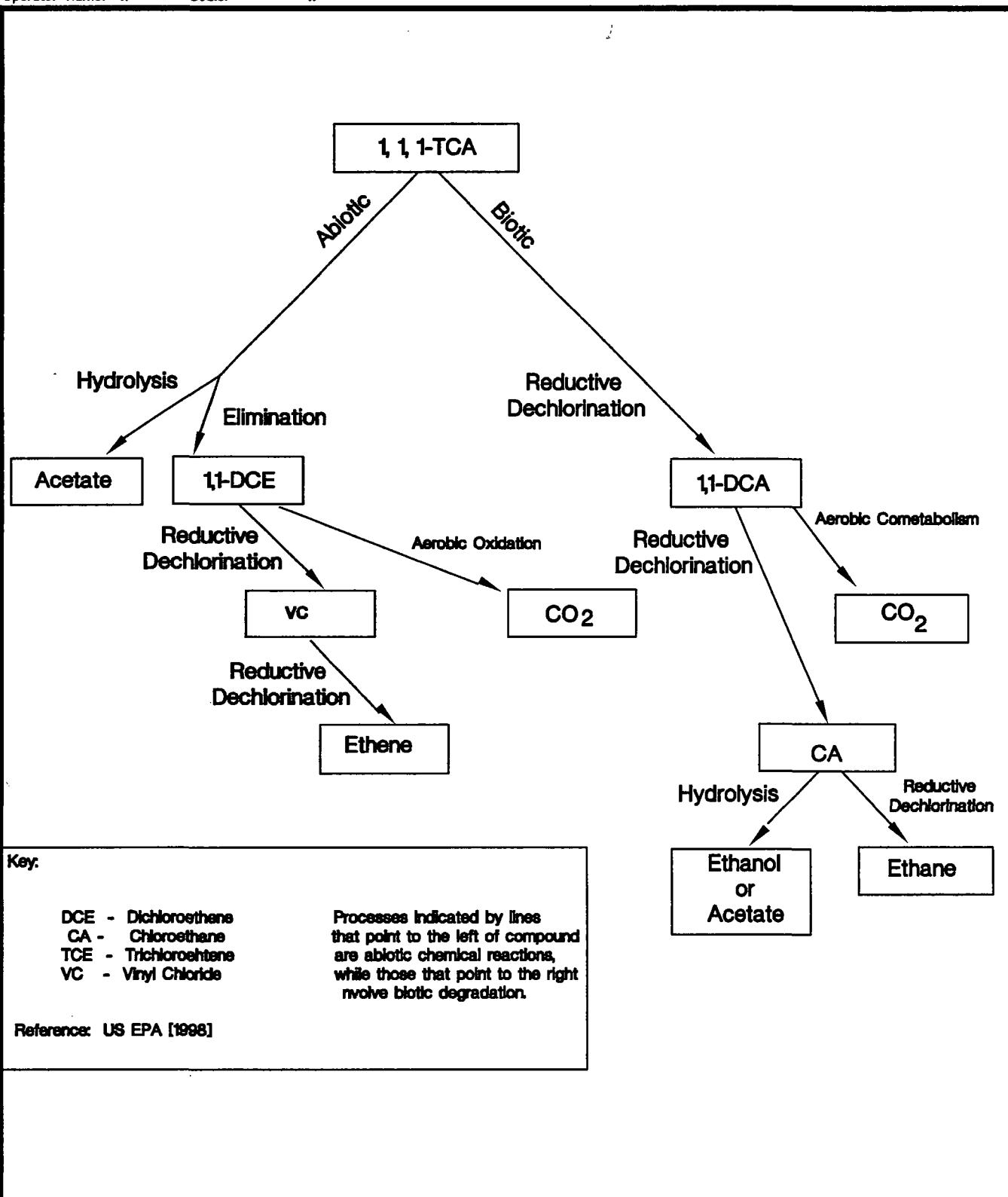
744 Heartland Trail
Madison, WI 53717-1934
P.O. Box 8923 53708-8923
Phone: 608-831-4444
Fax: 608-831-3334

RMT

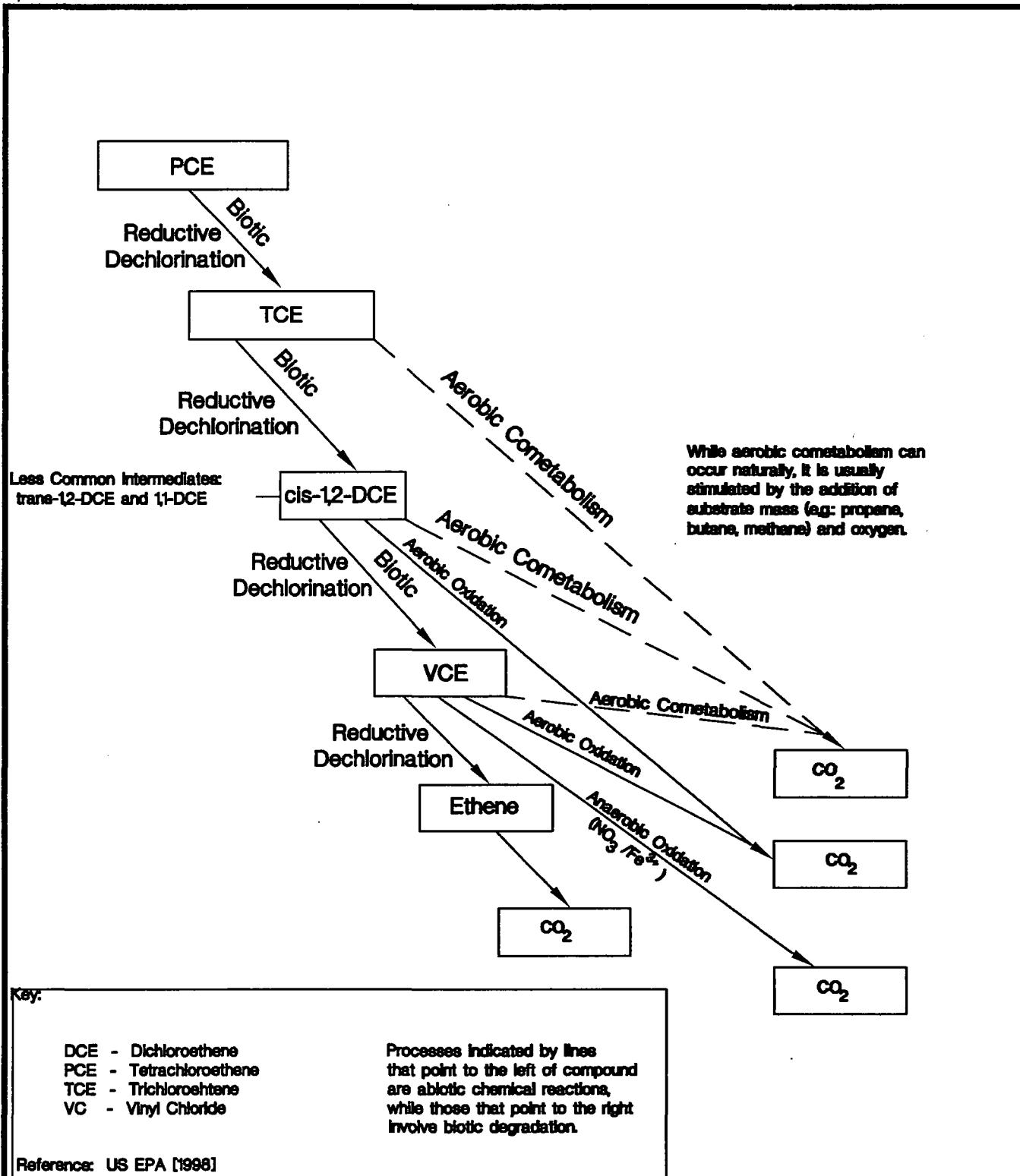


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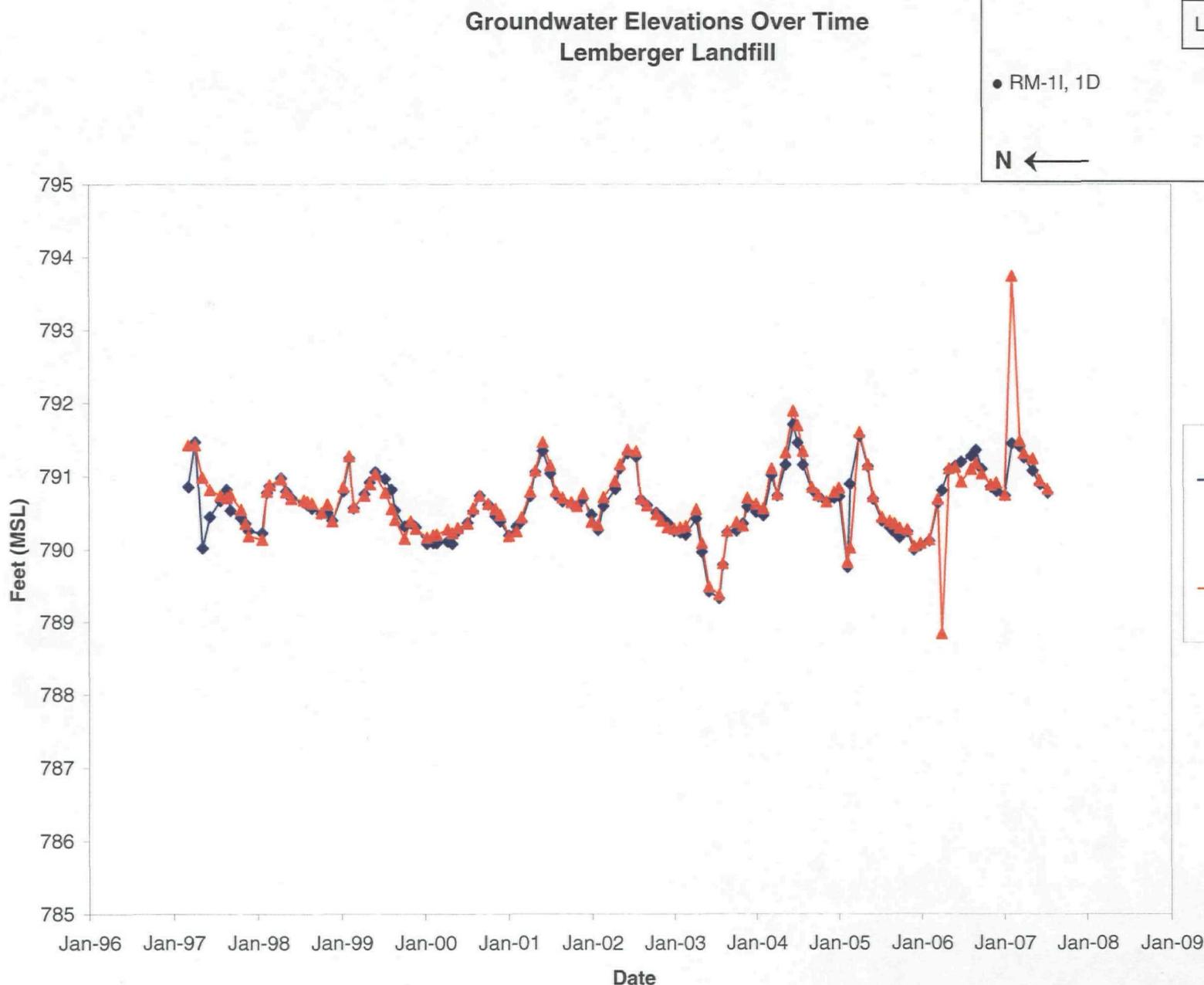
RMT	LEMBERGER LANDFILL AND LEMBERGER TRANSPORT AND RECYCLING SITE TOWN OF FRANKLIN, WISCONSIN	DRAWN BY: FITZGERALD
	COMMON DEGRADATION PATHWAYS FOR CHLORINATED ETHANES	APPROVED BY: J. WEDEKIND
	FIGURE 7	PROJECT NO. 00.003456.43
		FILE NO. 034564303.DWG
		DATE: JANUARY 2008



RMT	LEMBERGER LANDFILL AND LEMBERGER TRANSPORT AND RECYCLING SITES TOWN OF FRANKLIN, WISCONSIN	DRAWN BY: FITZGERALD
	COMMON DEGRADATION PATHWAYS FOR CHLORINATED ETHENES	APPROVED BY: J. WEDEKIND
		PROJECT NO. 00.003456.43
		FILE NO. 034564302.DWG
		DATE: JANUARY 2008
	FIGURE 8	

Appendix A

Hydrographs

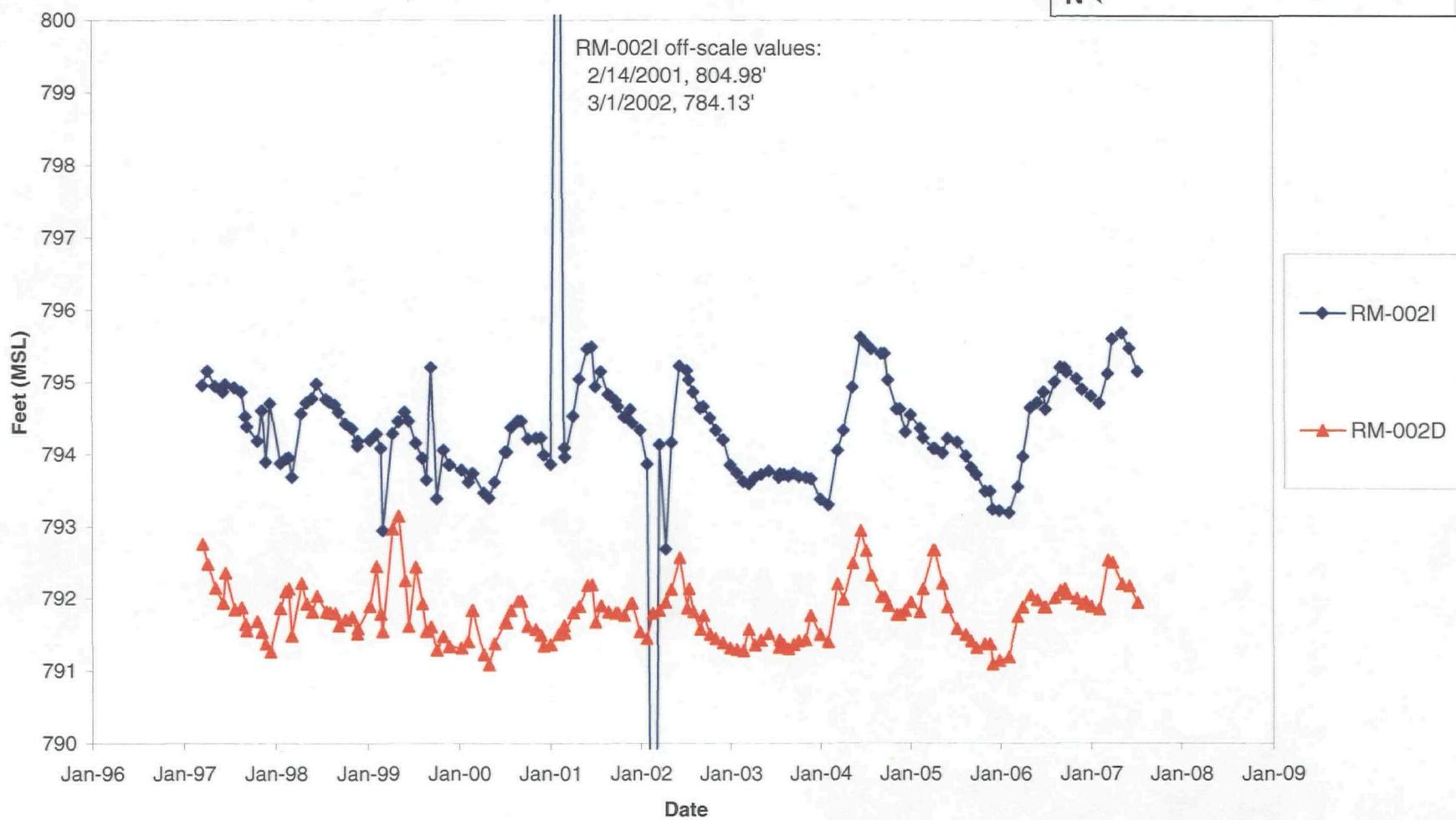


Groundwater Elevations Over Time Lemberger Landfill

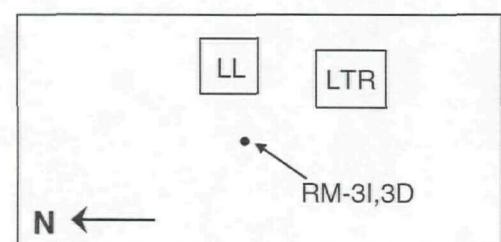
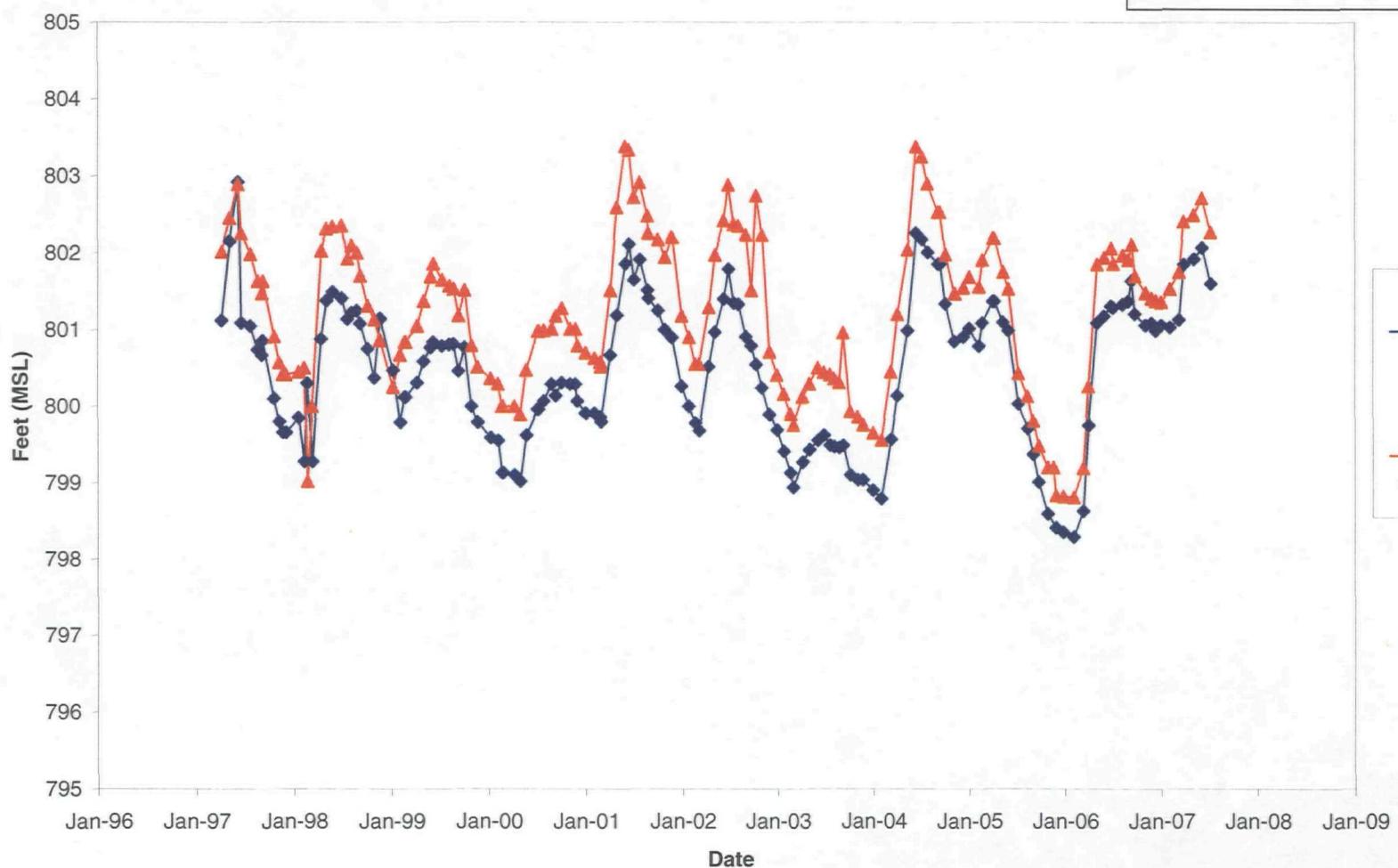
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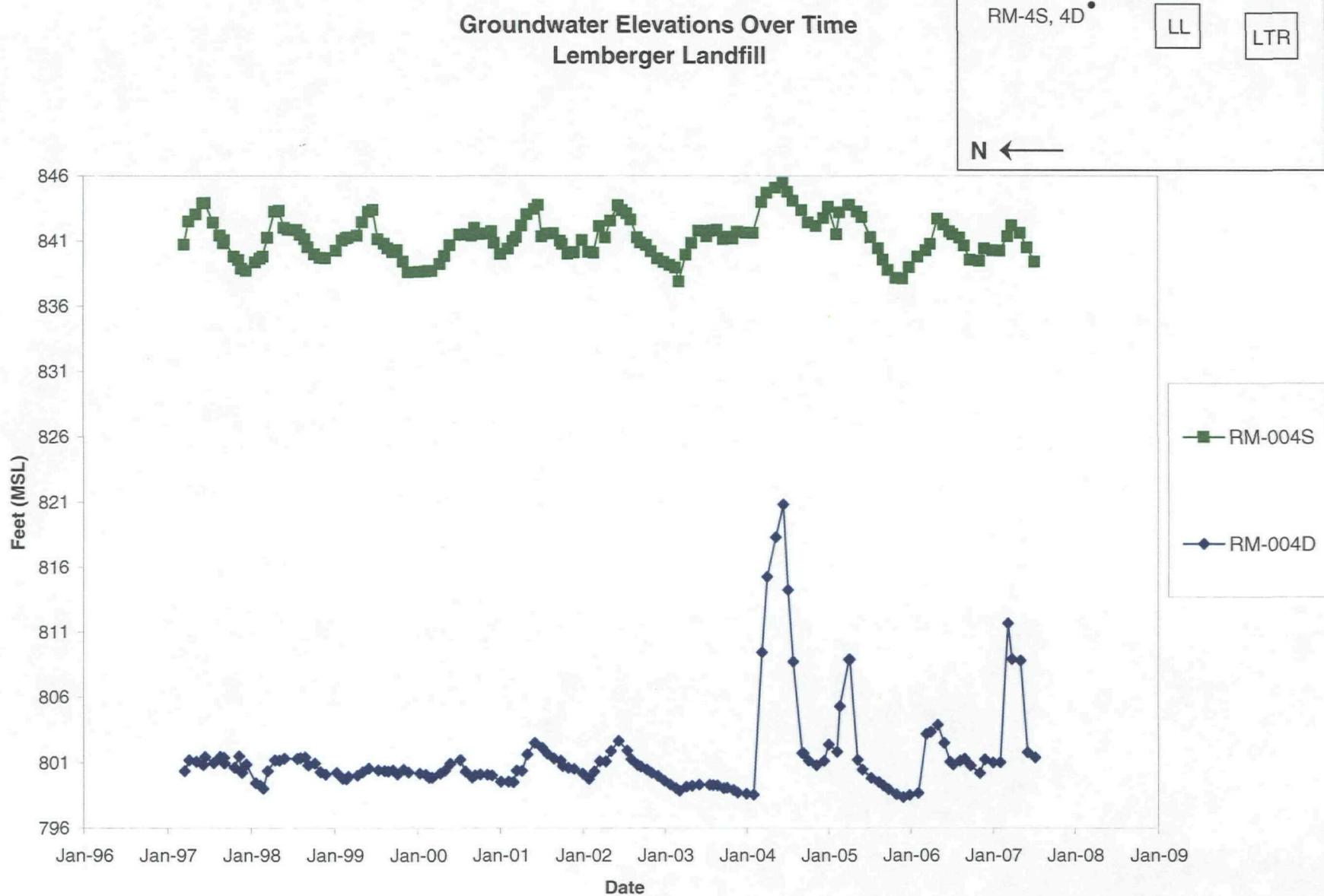
• RM-2I, 2D

N ←

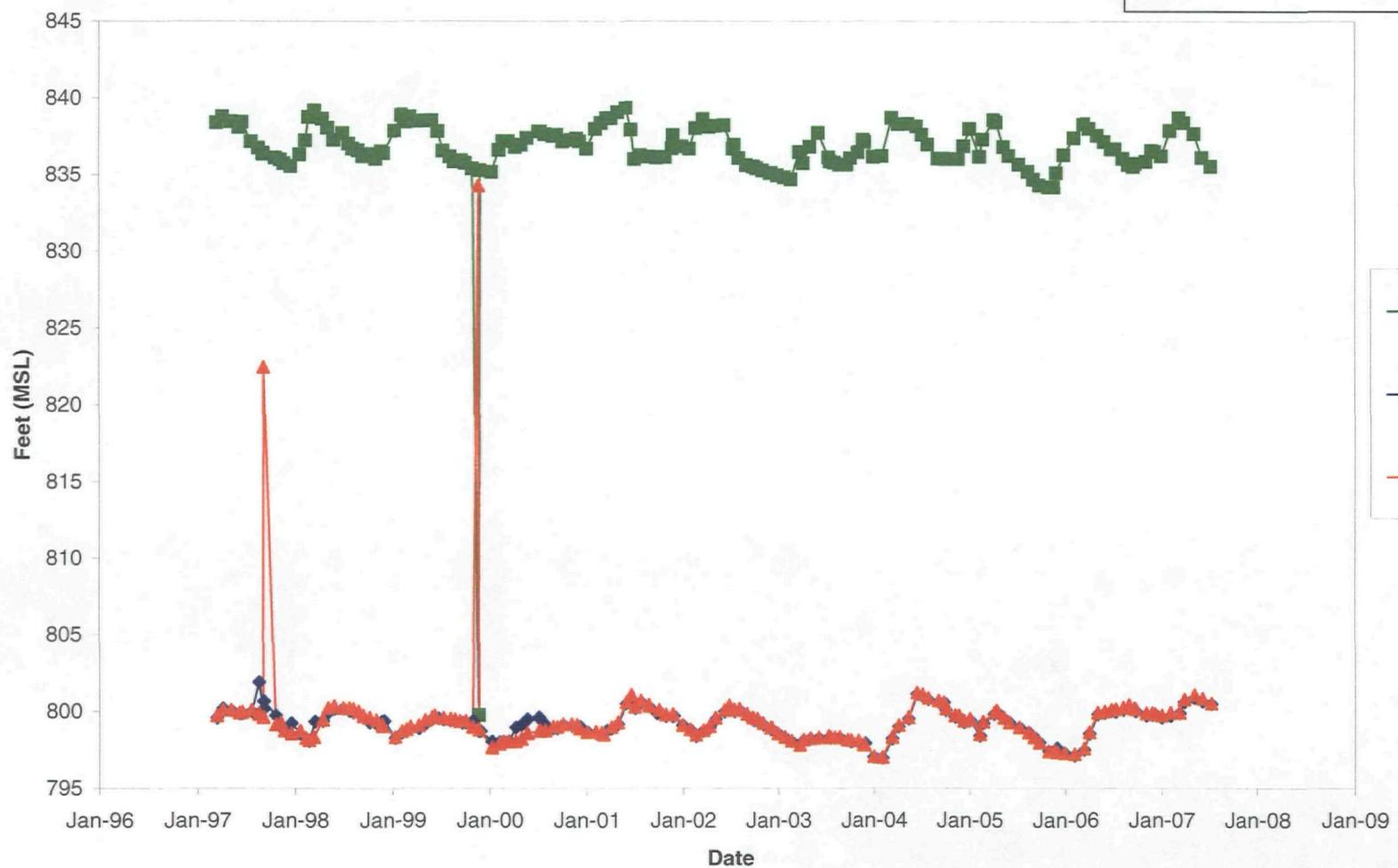
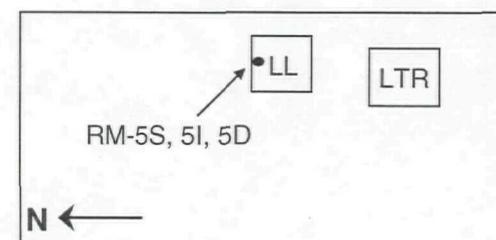


Groundwater Elevations Over Time Lemberger Landfill

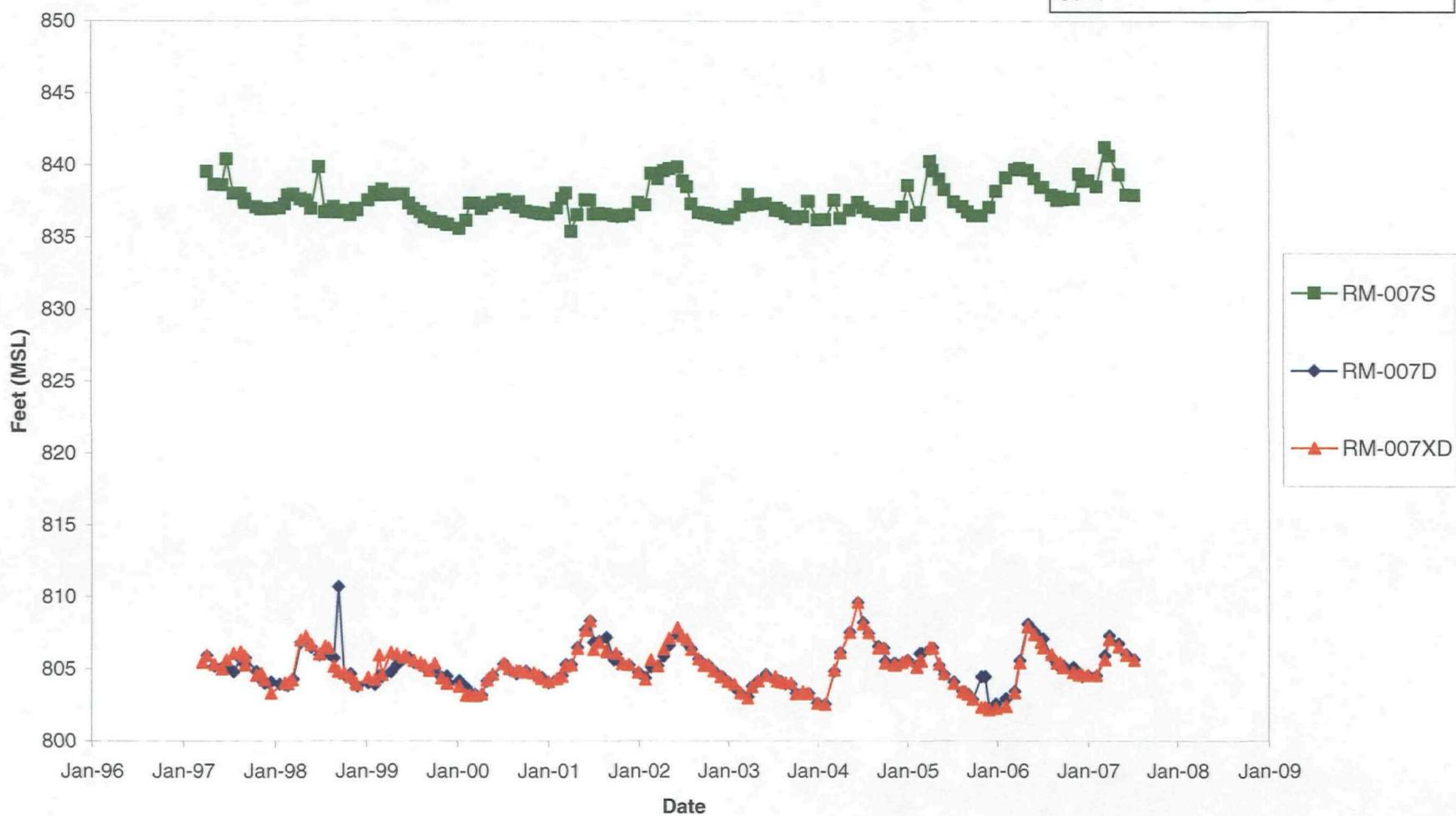
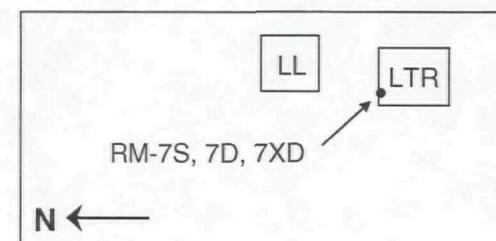




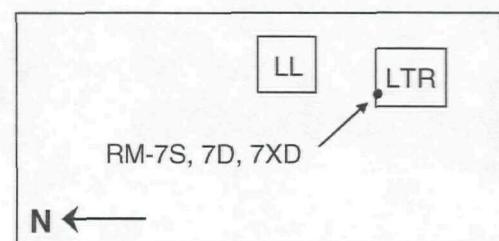
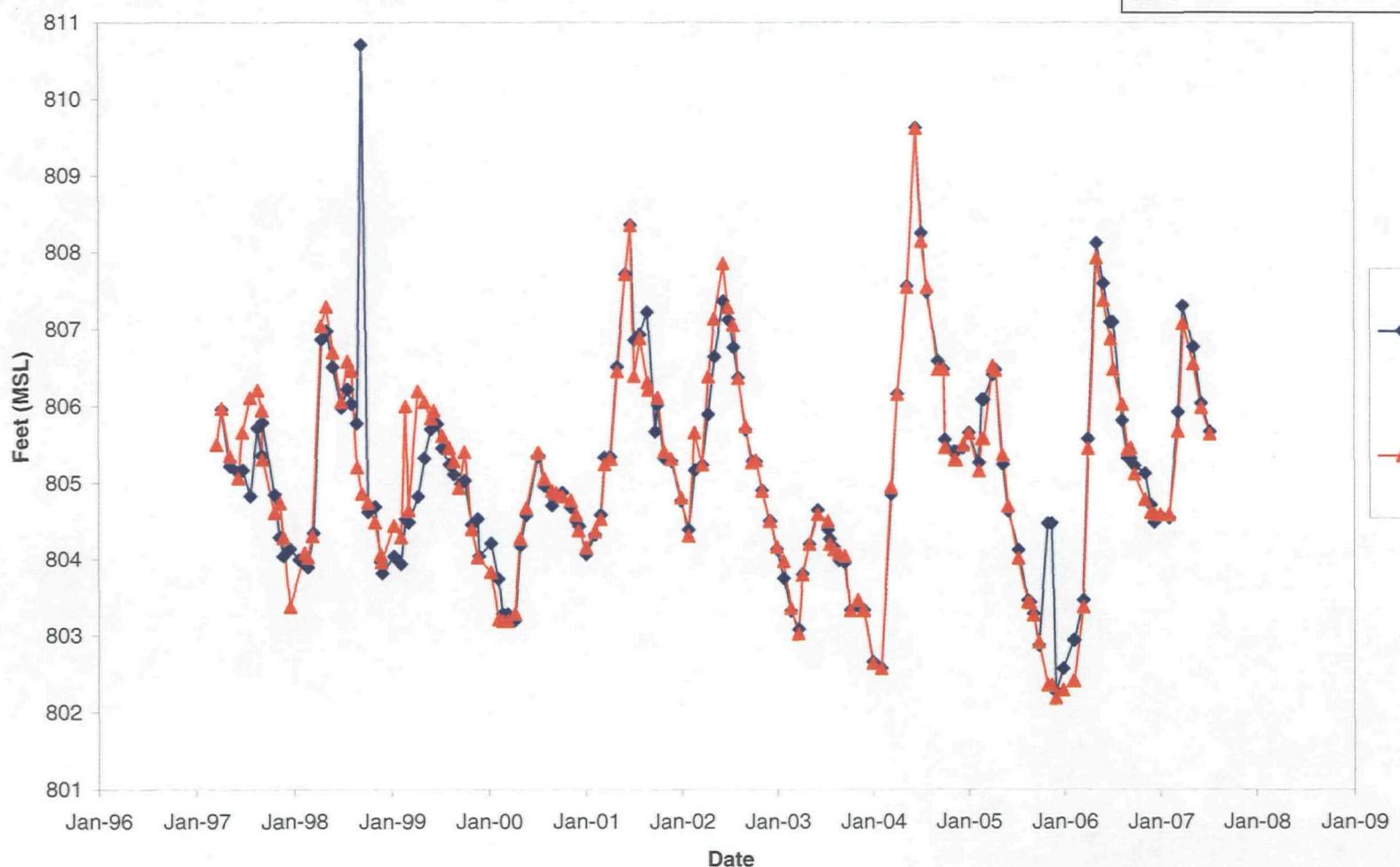
Groundwater Elevations Over Time Lemberger Landfill



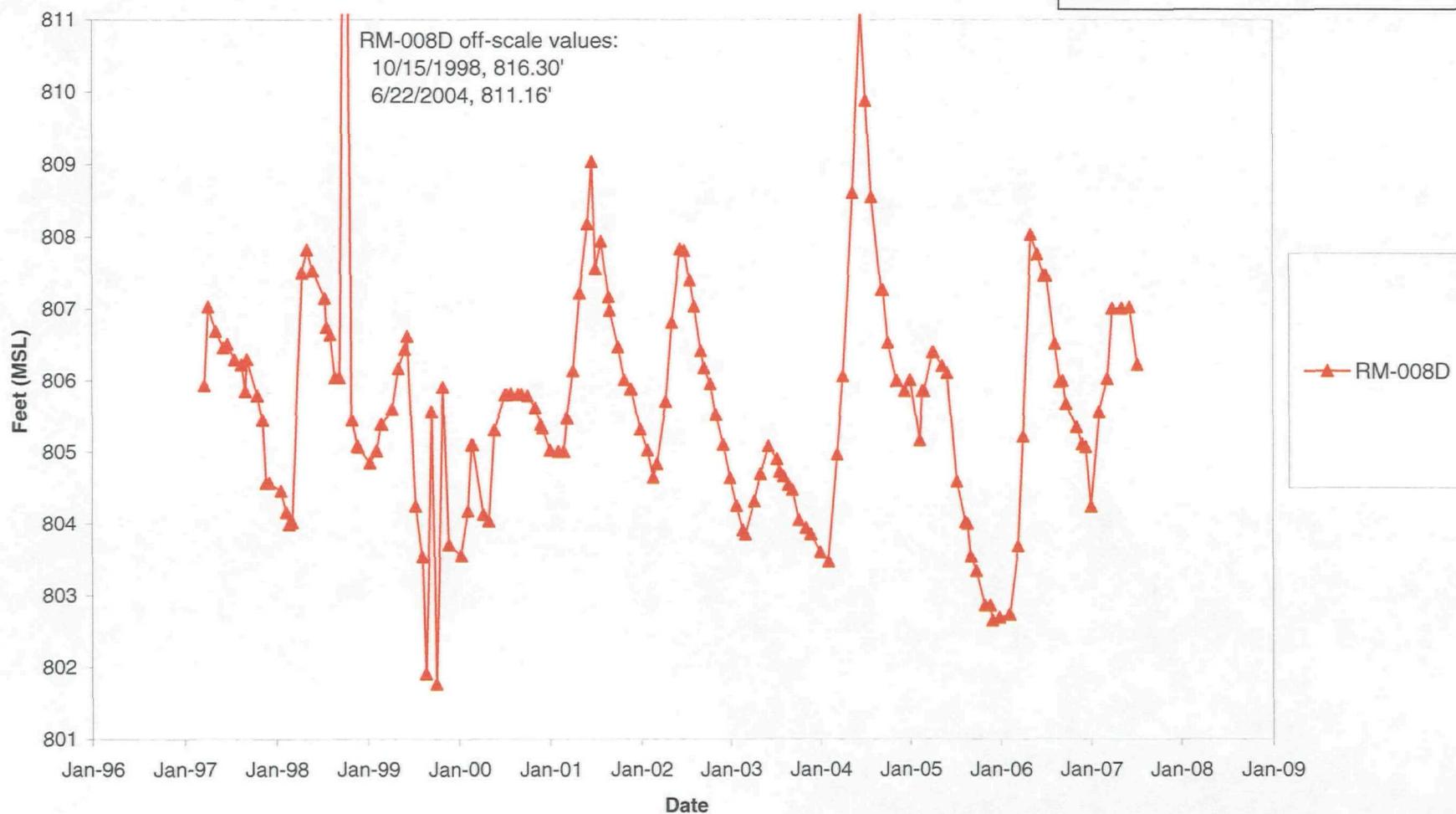
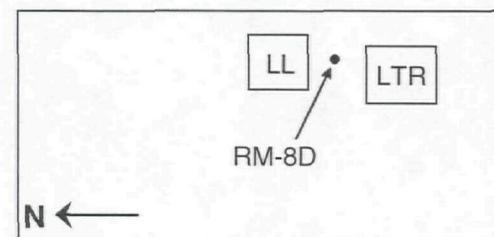
Groundwater Elevations Over Time Lemberger Landfill



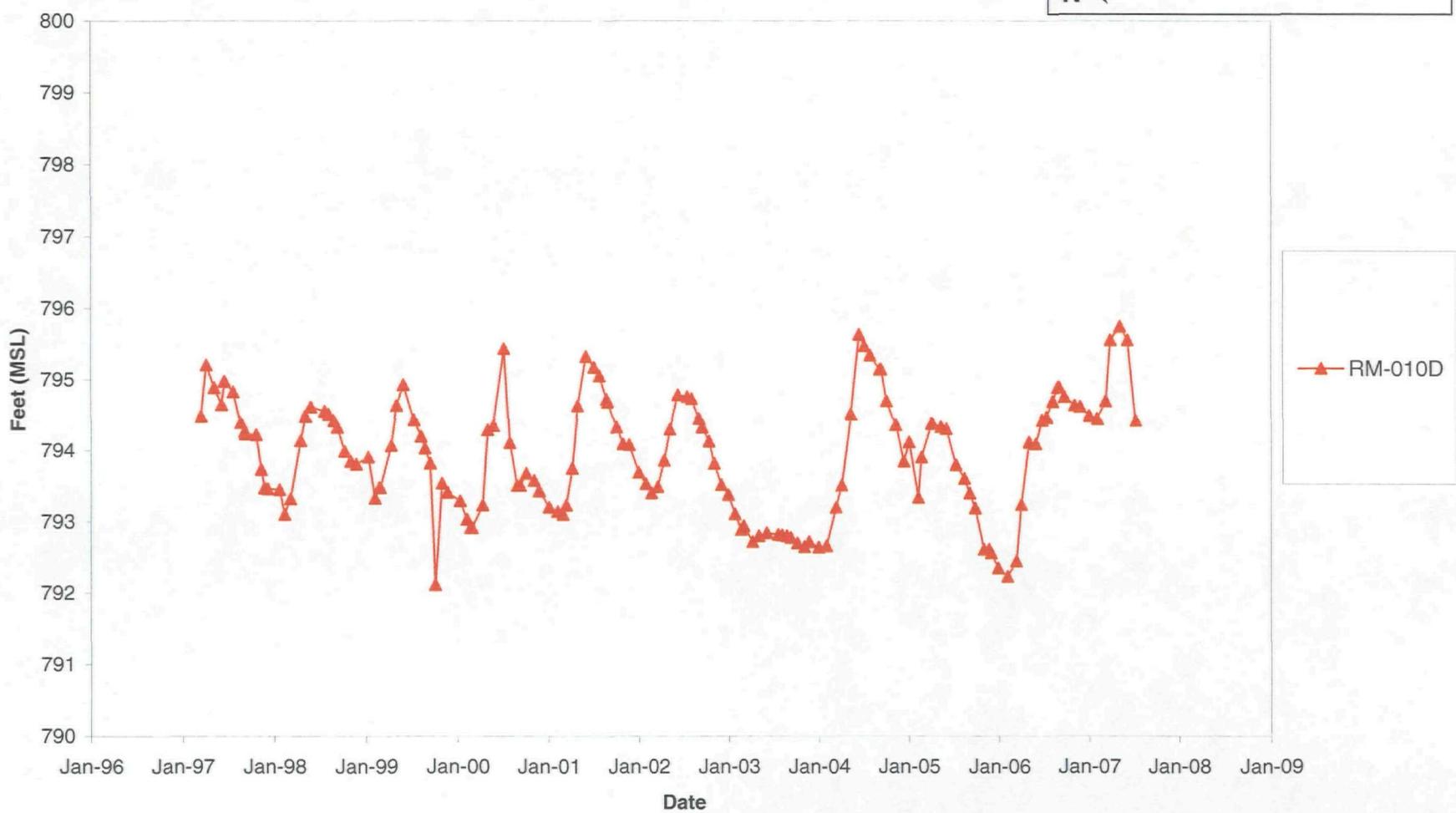
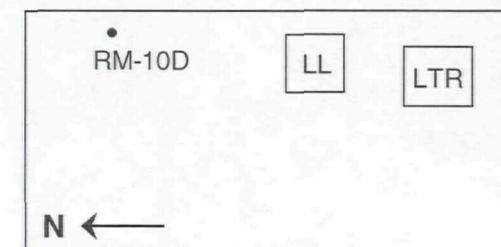
Groundwater Elevations Over Time Lemberger Landfill



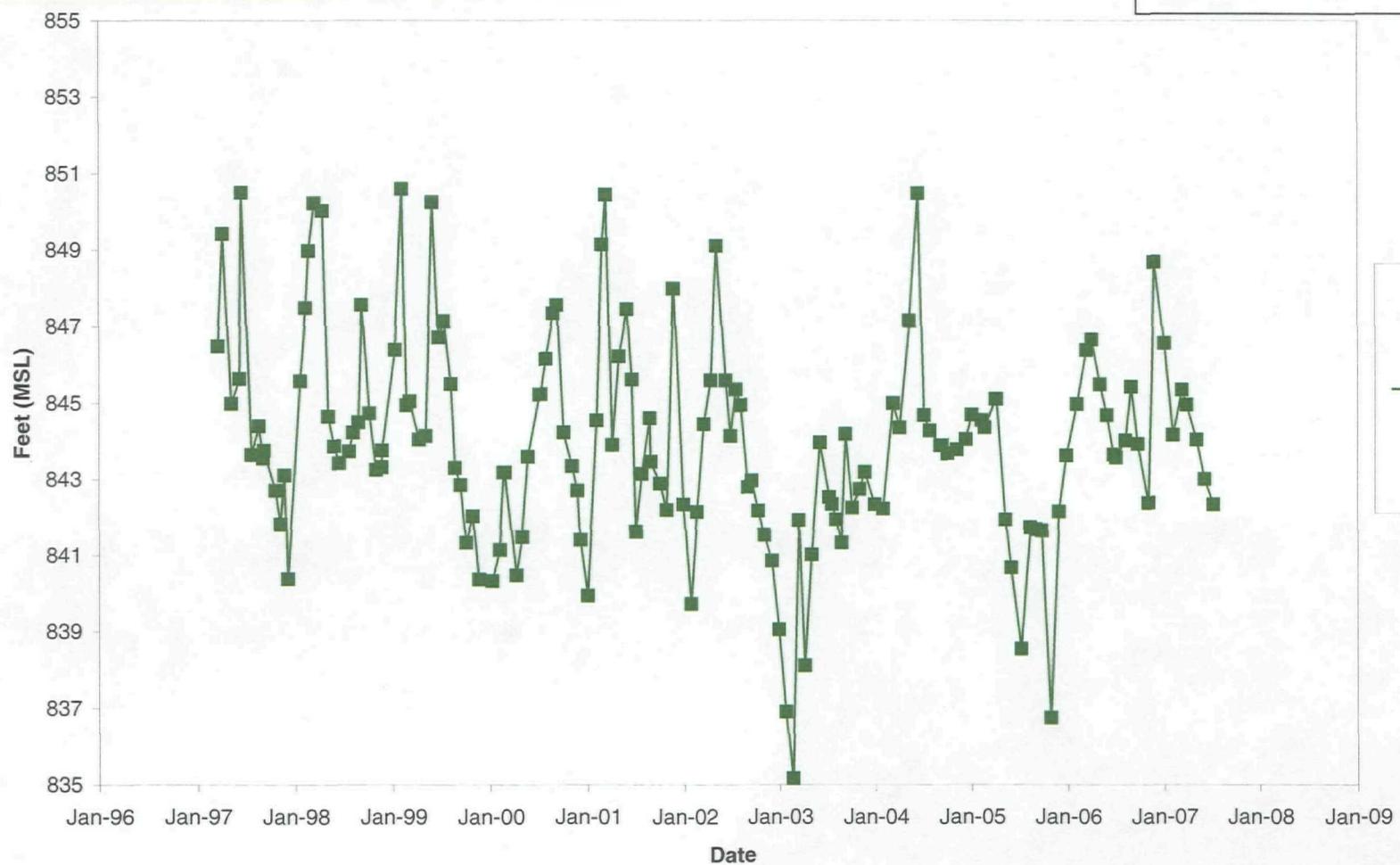
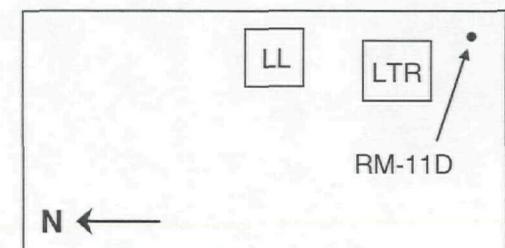
Groundwater Elevations Over Time Lemberger Landfill



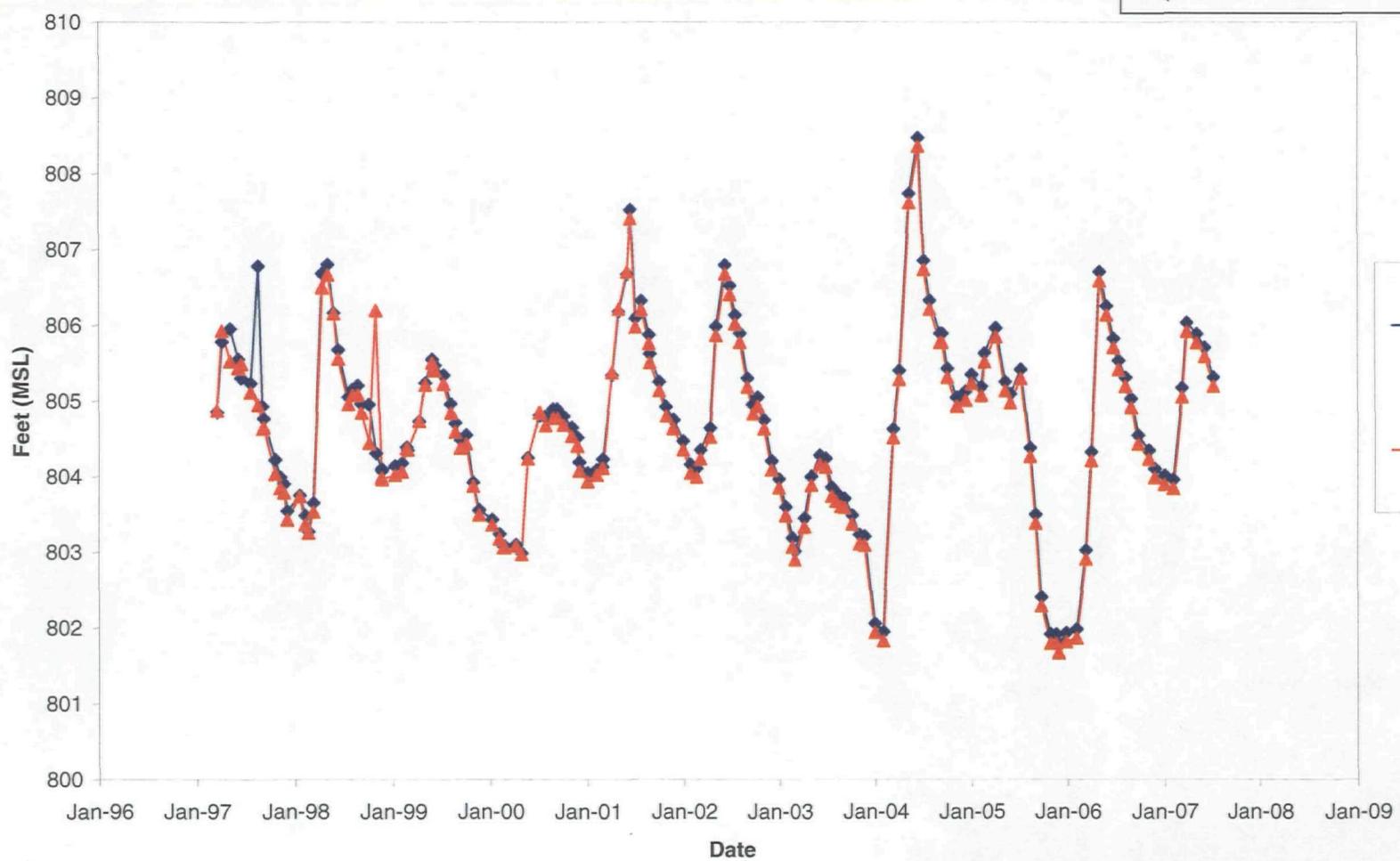
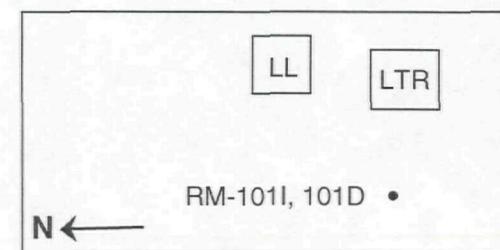
Groundwater Elevations Over Time
Lemberger Landfill



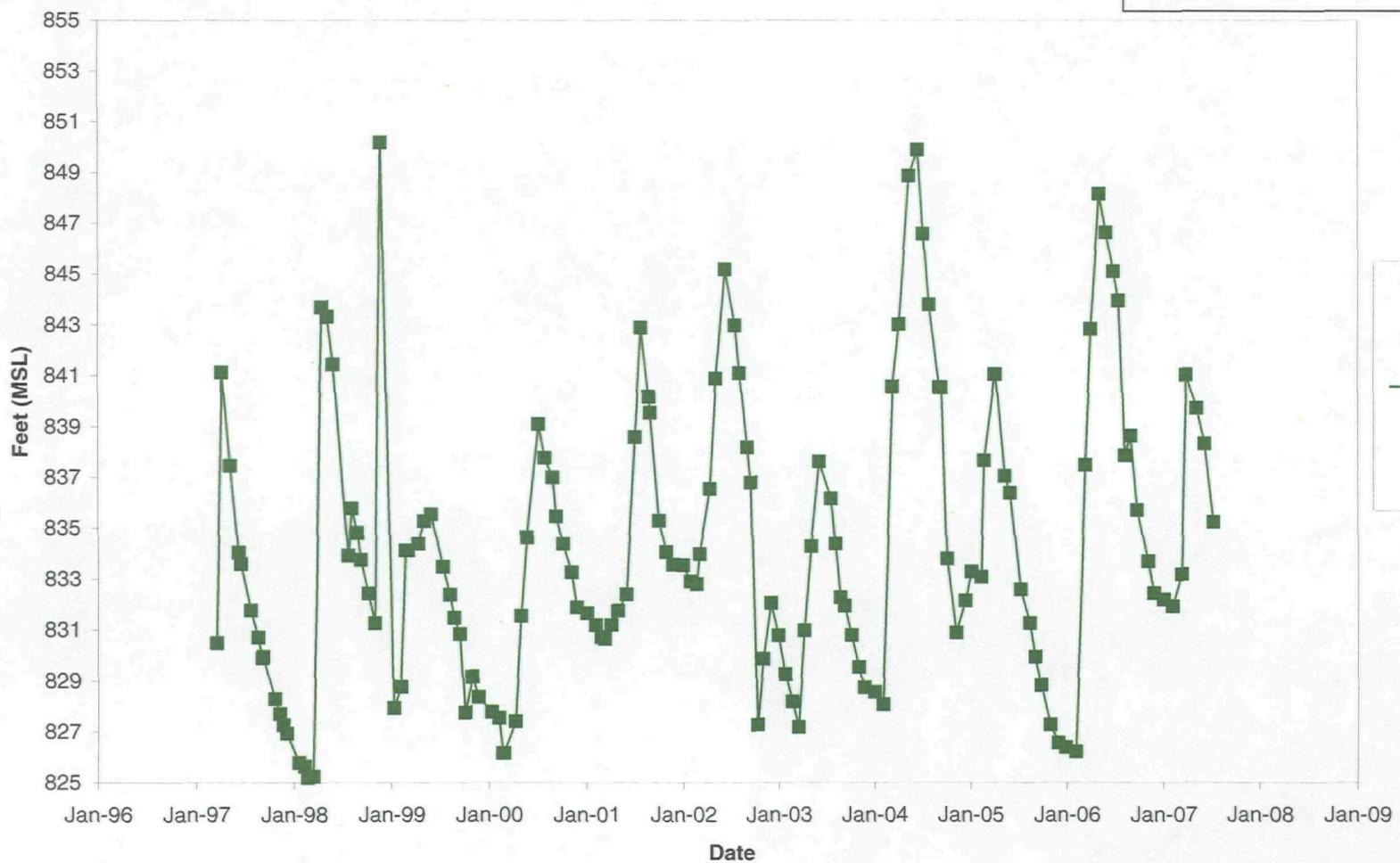
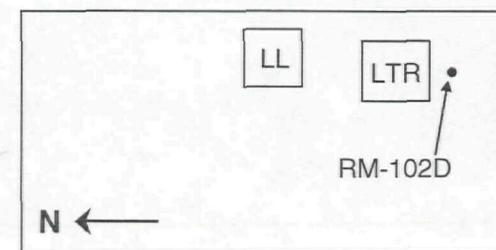
Groundwater Elevations Over Time Lemberger Landfill



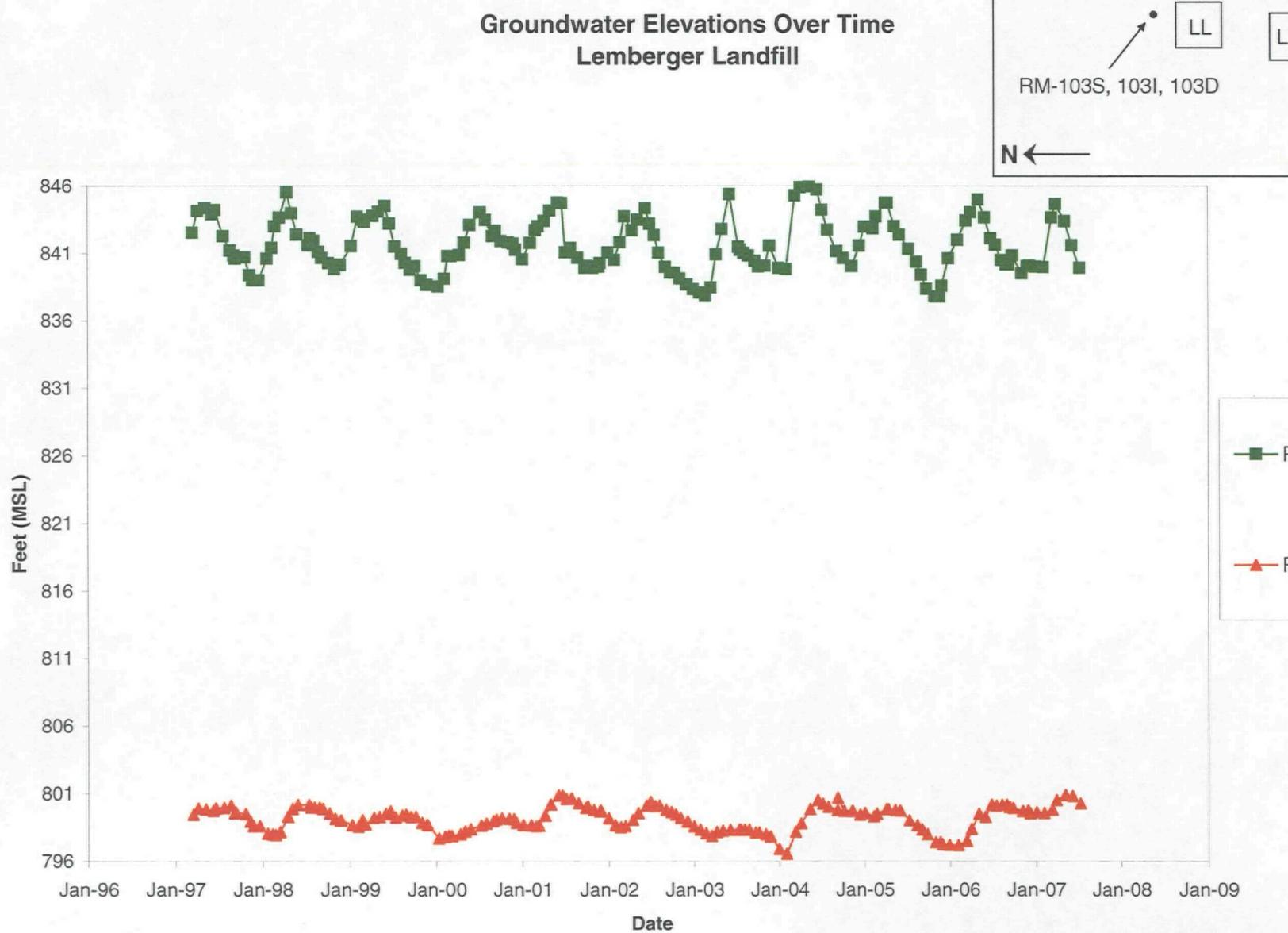
Groundwater Elevations Over Time Lemberger Landfill



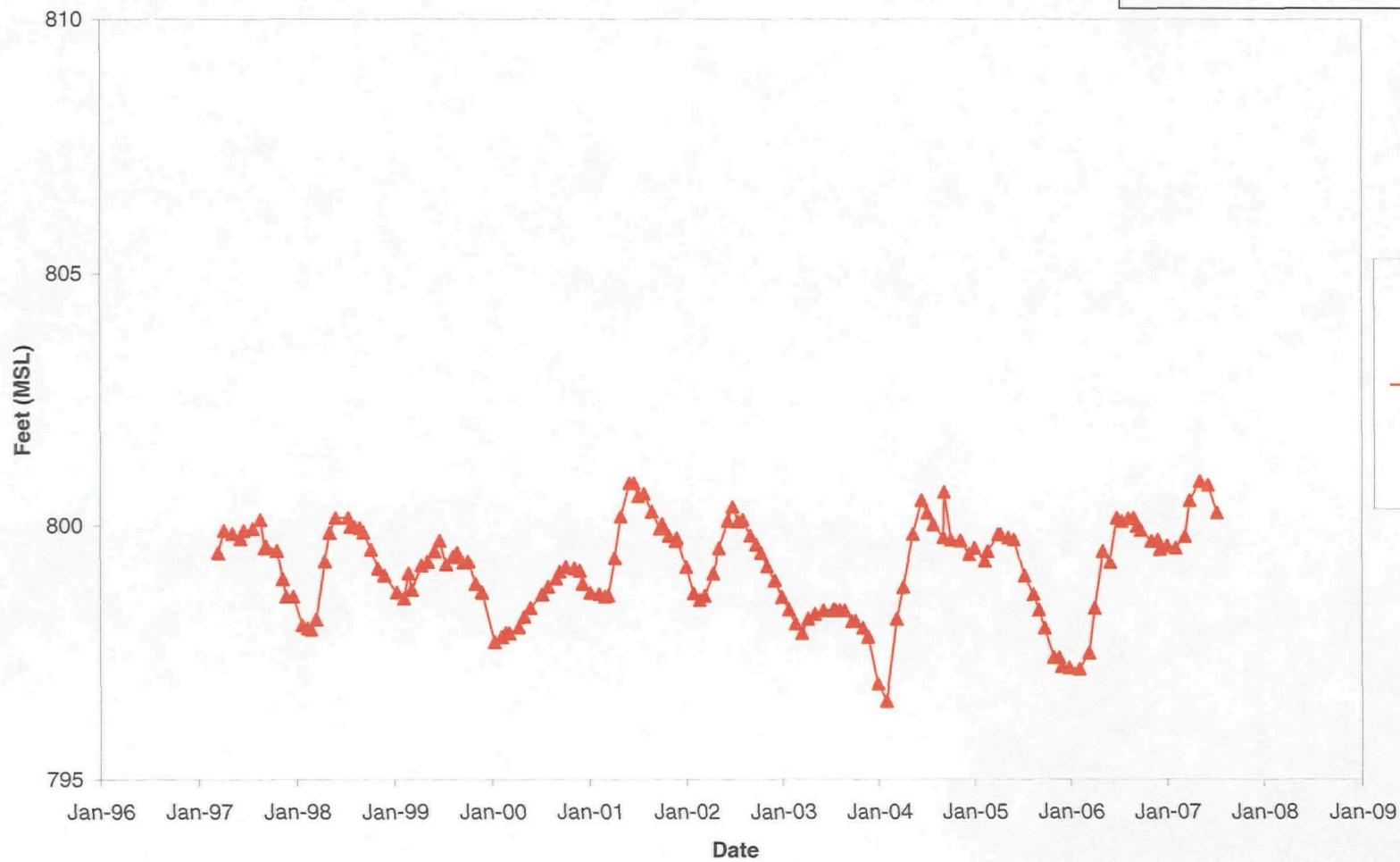
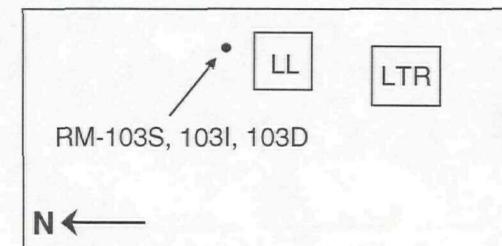
Groundwater Elevations Over Time Lemberger Landfill



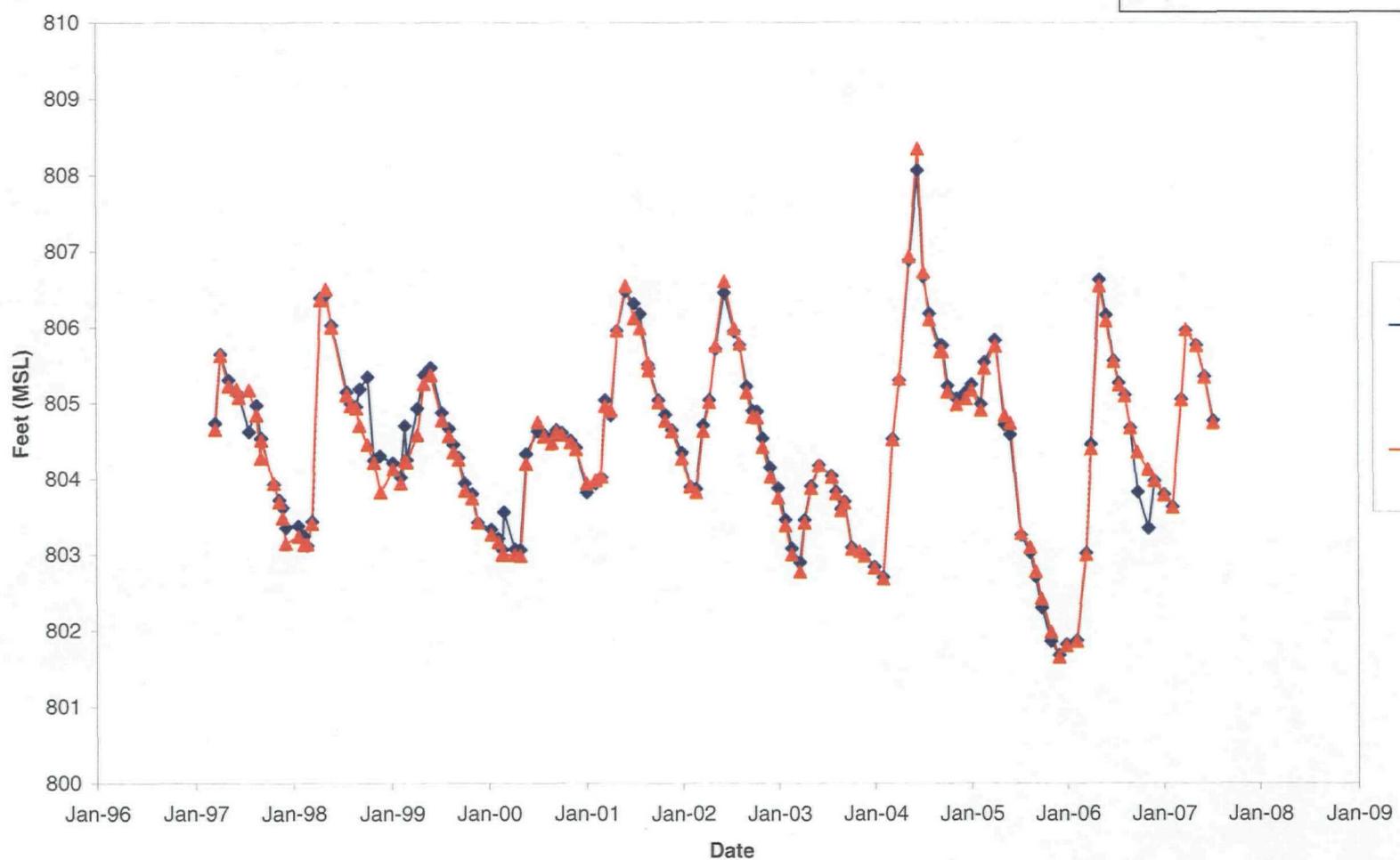
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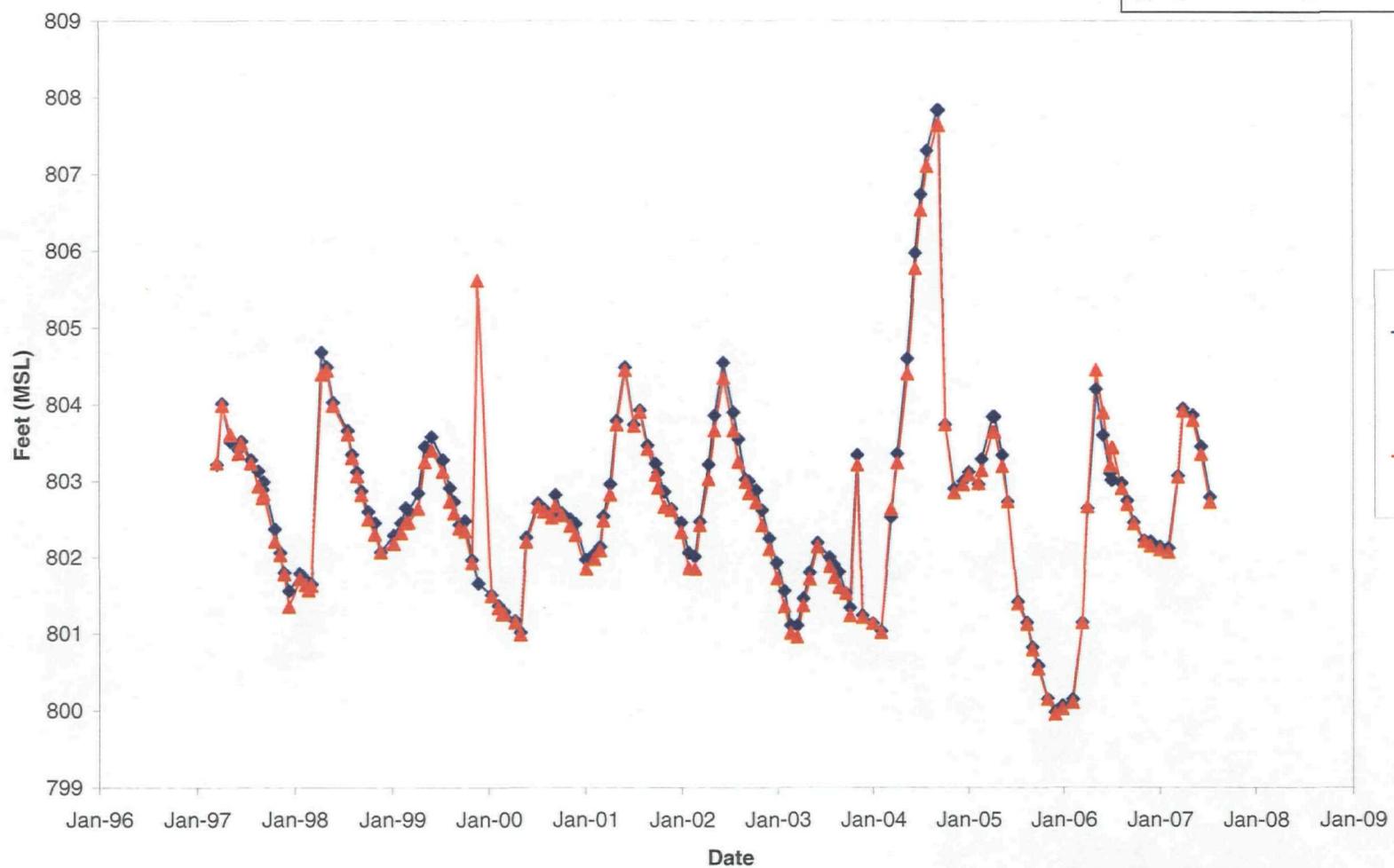
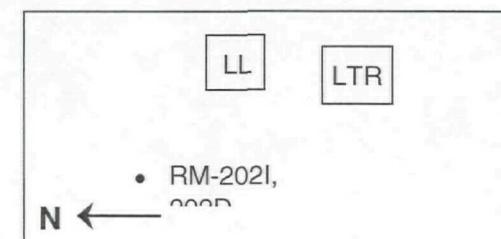
Groundwater Elevations Over Time
Lemberger Landfill



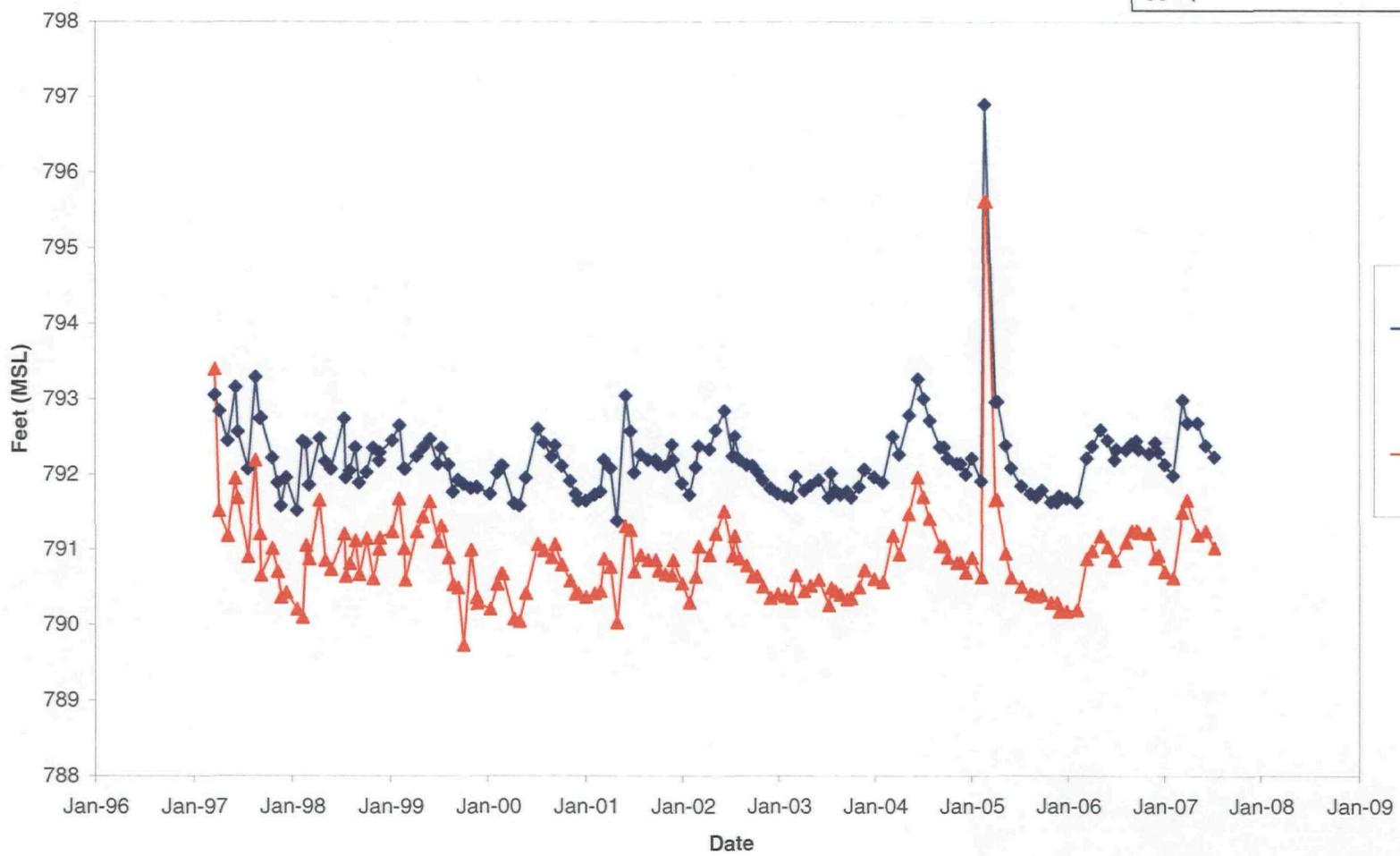
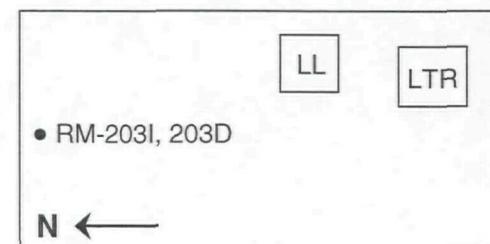
Groundwater Elevations Over Time Lemberger Landfill



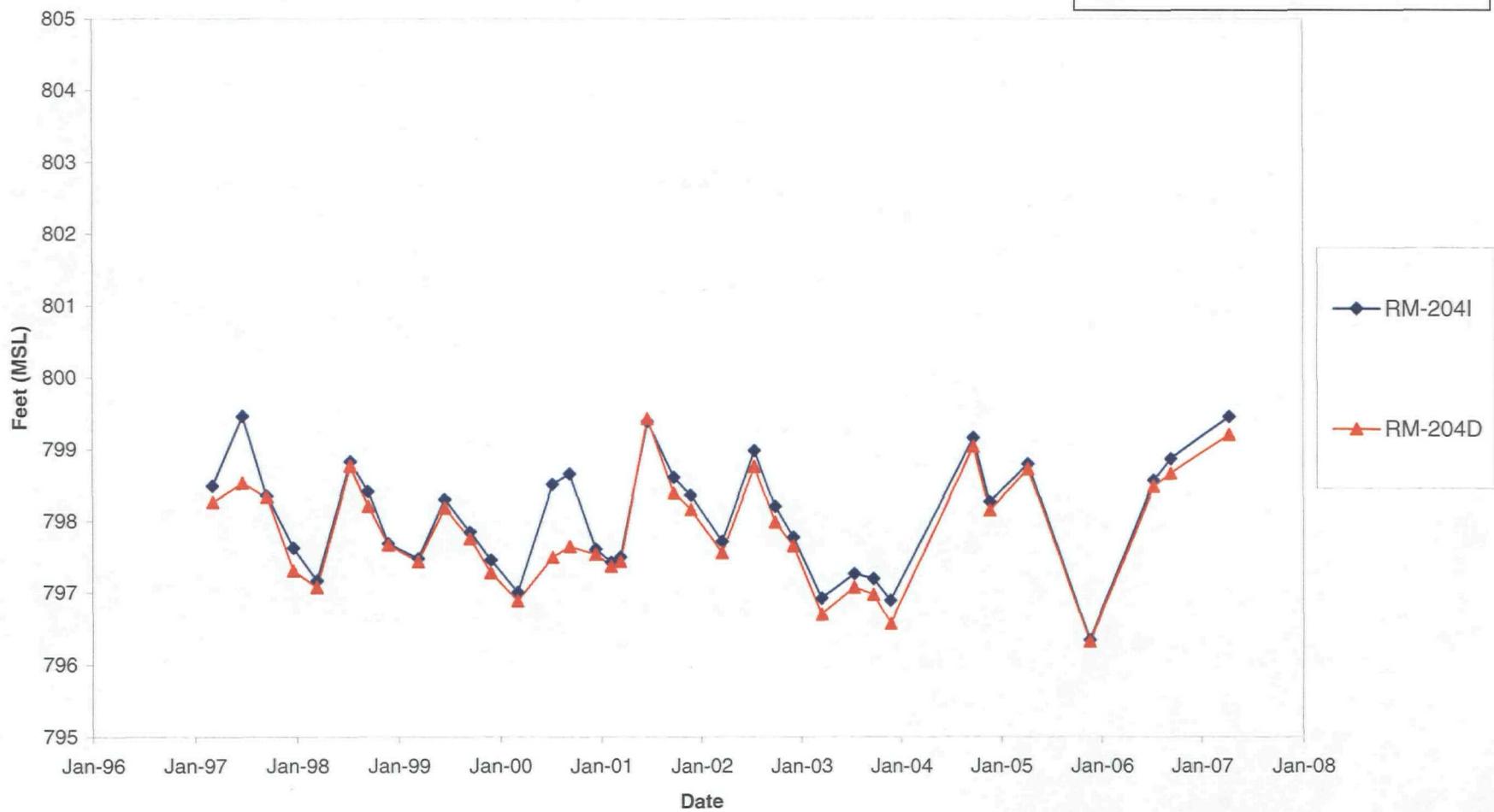
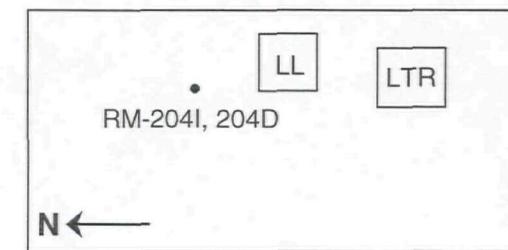
Groundwater Elevations Over Time Lemberger Landfill



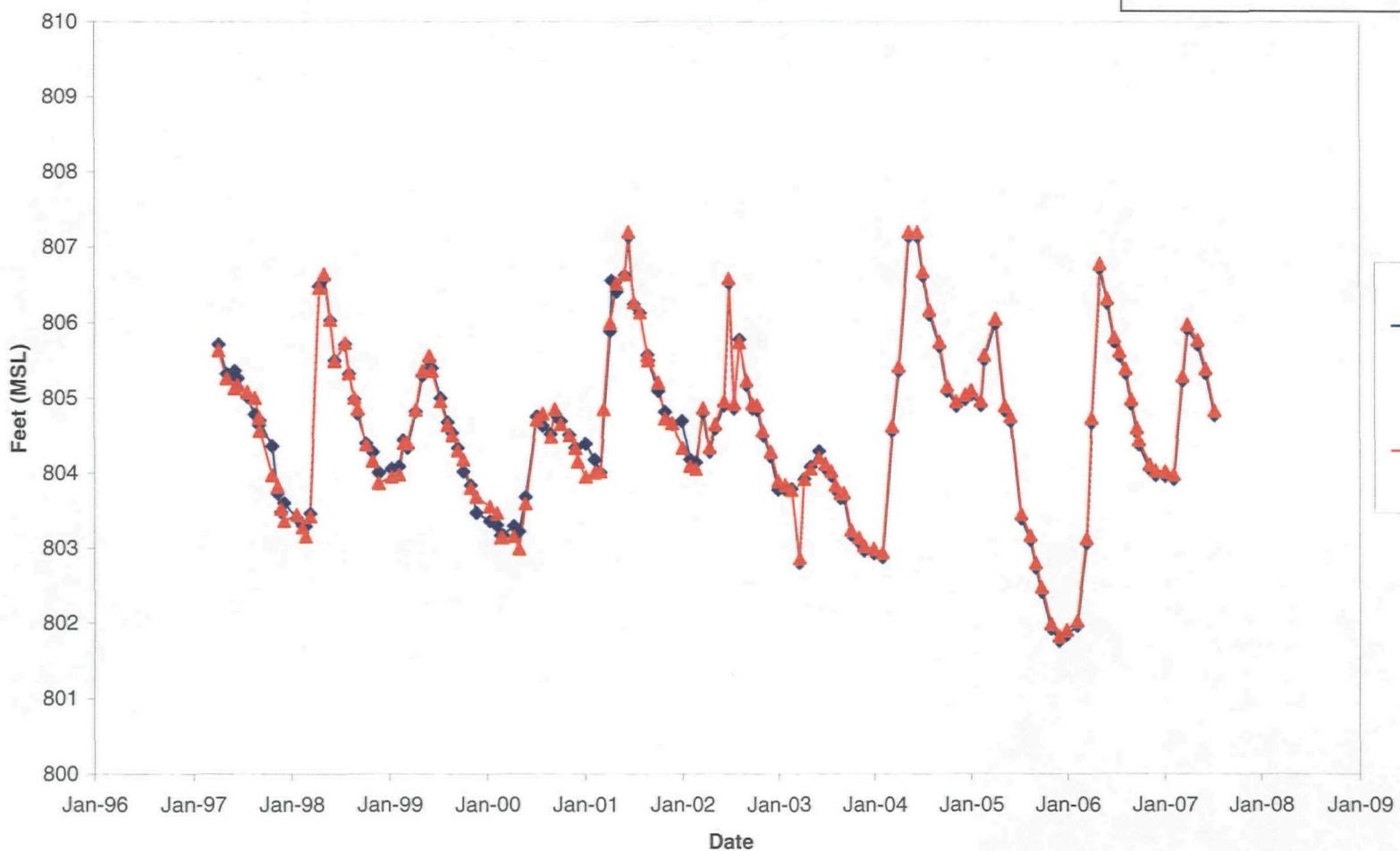
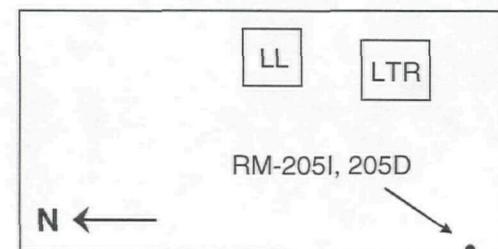
Groundwater Elevations Over Time Lemberger Landfill

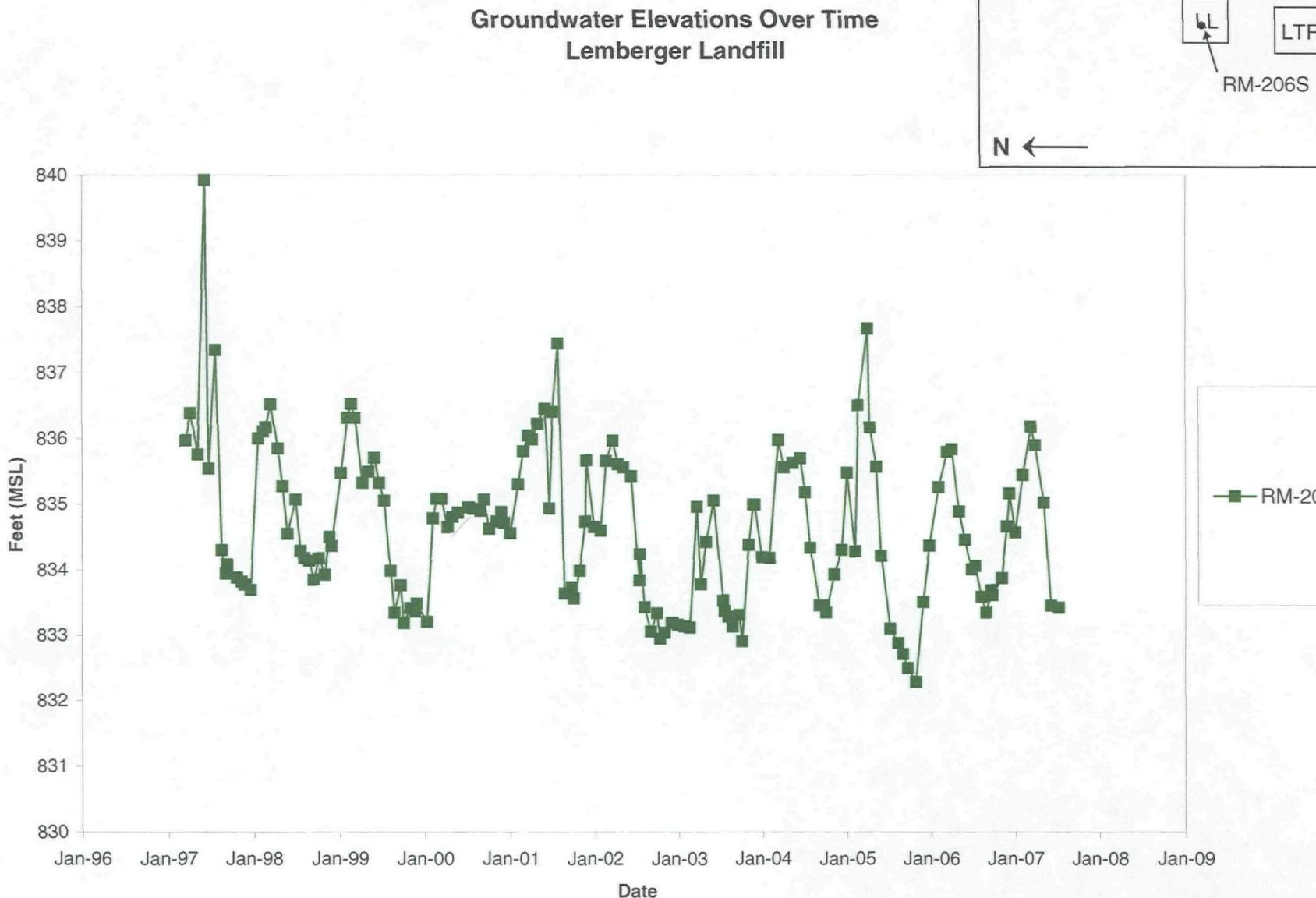


Groundwater Elevations Over Time Lemberger Landfill



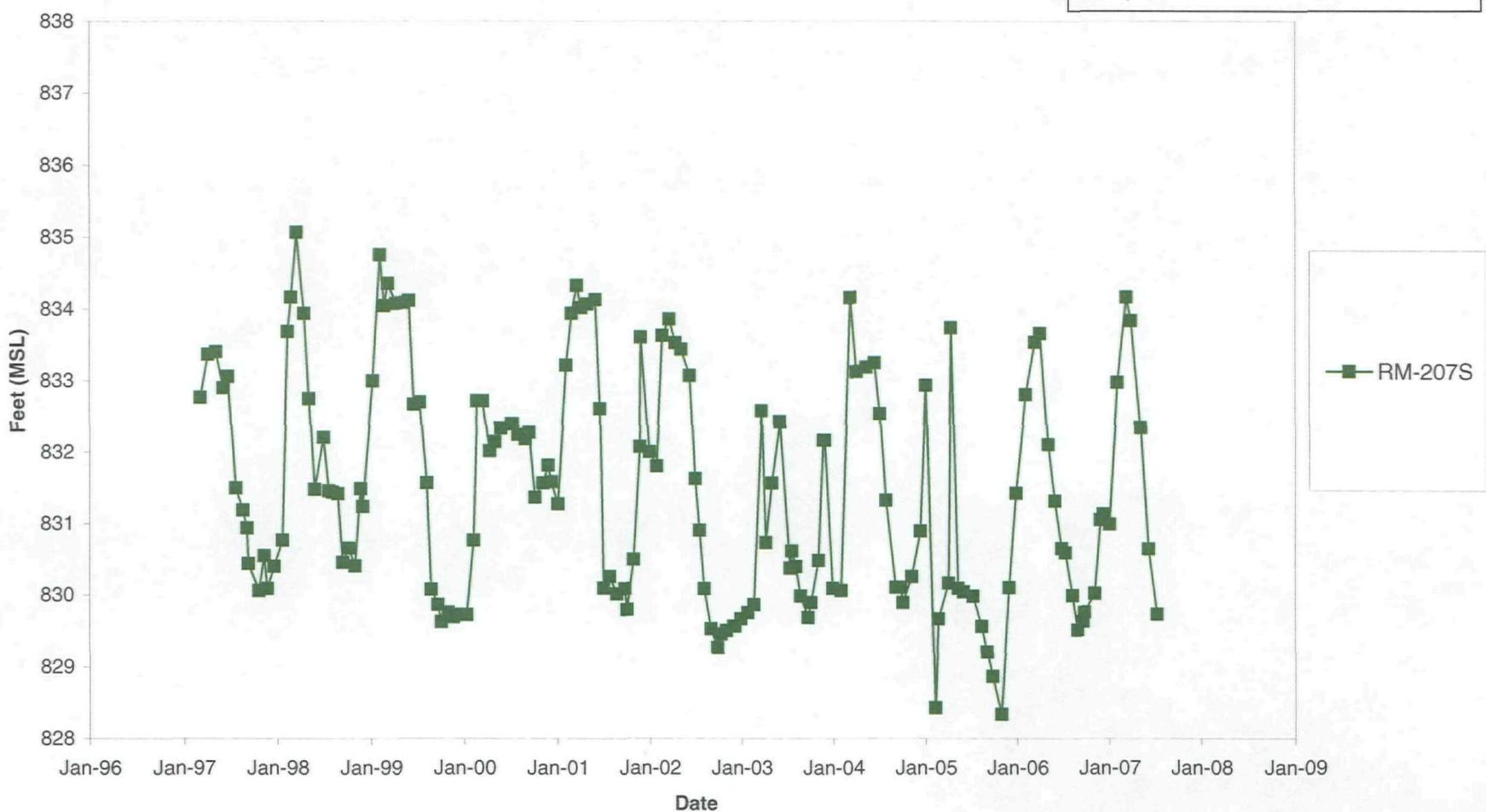
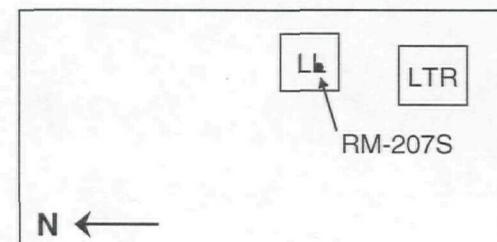
Groundwater Elevations Over Time
Lemberger Landfill



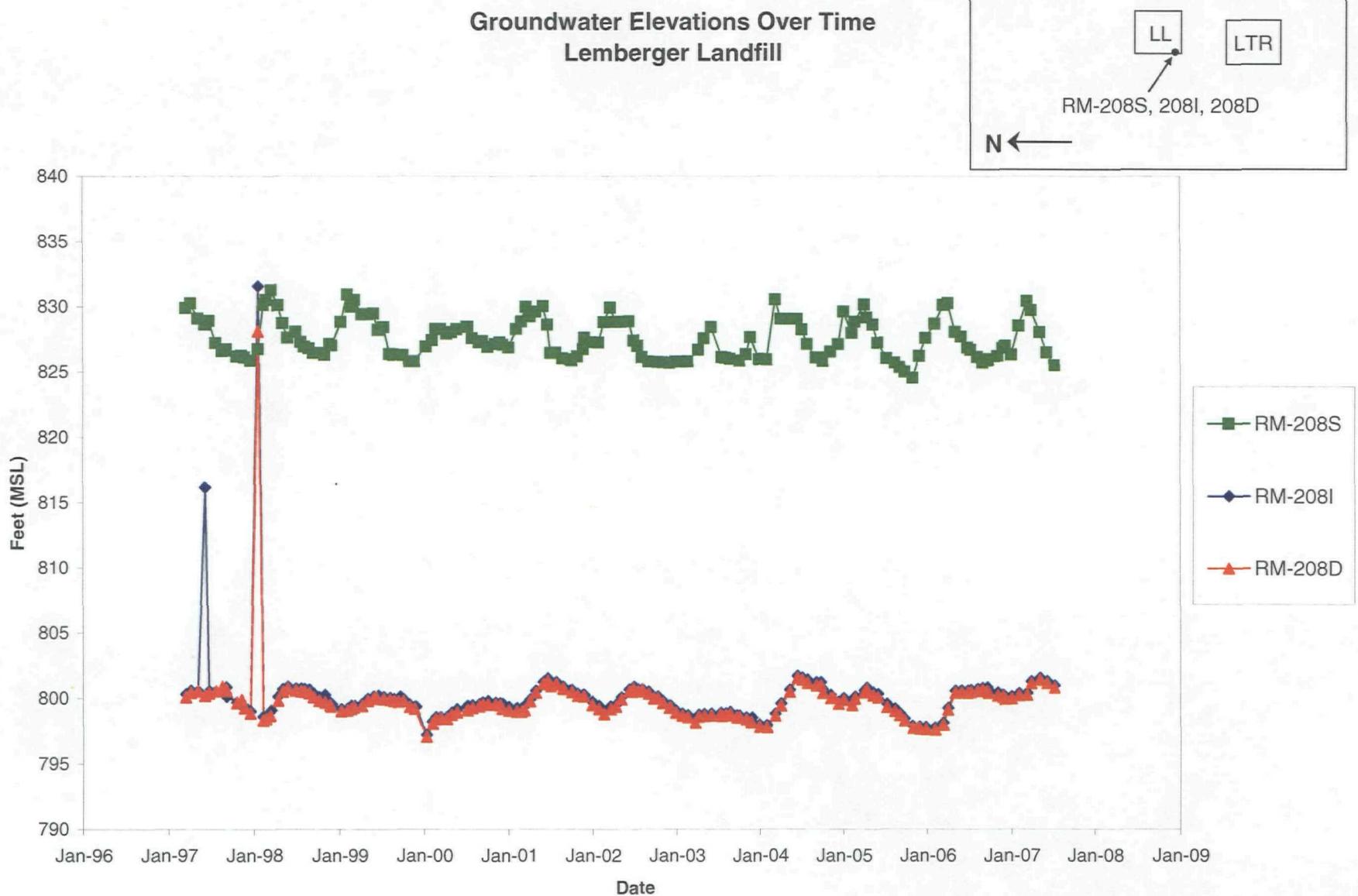


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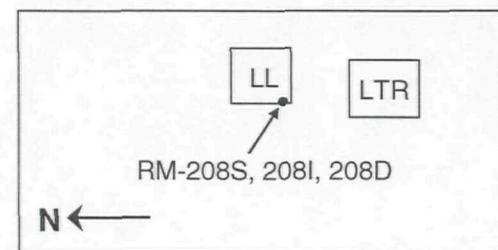
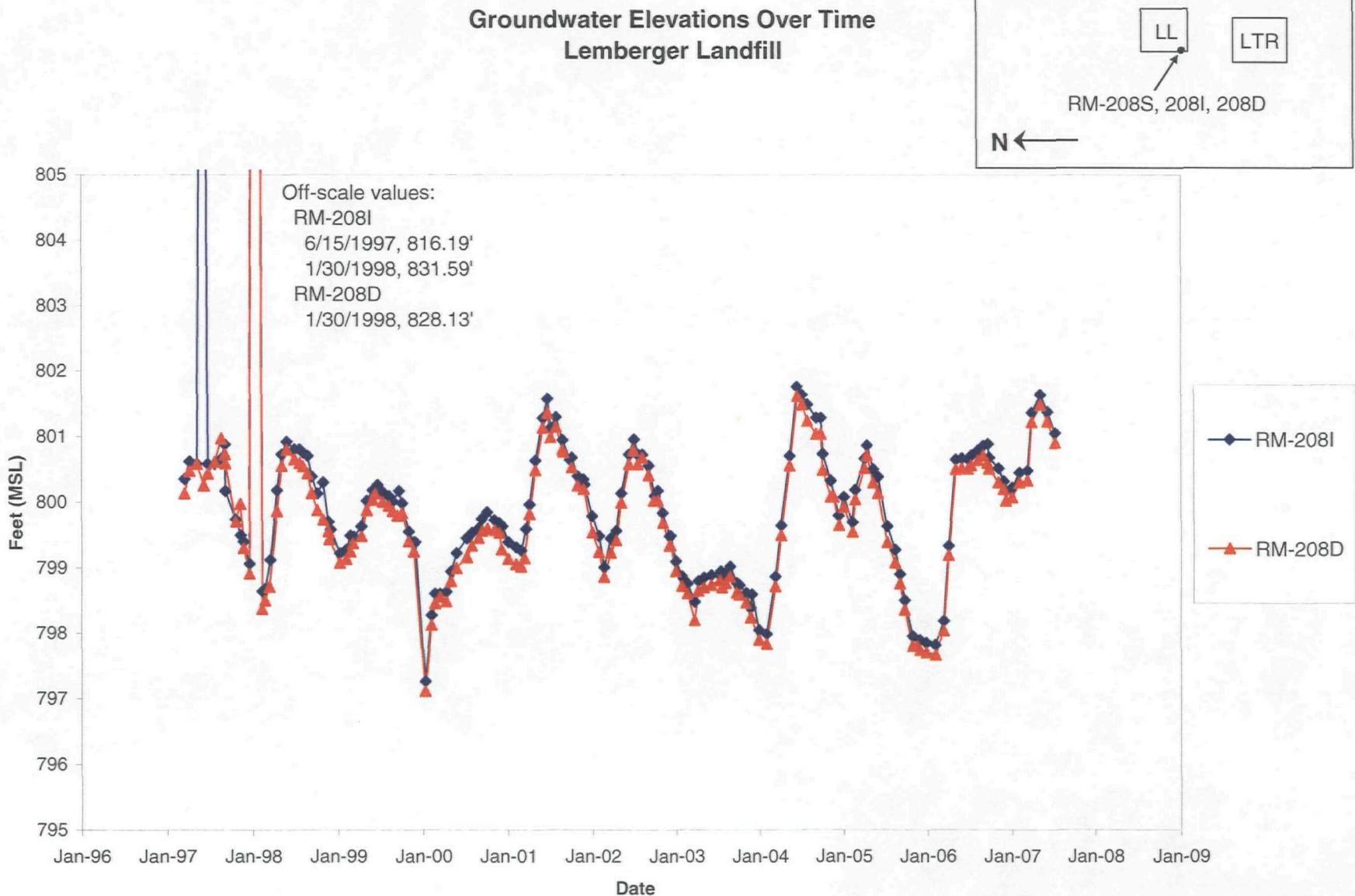
Groundwater Elevations Over Time Lemberger Landfill



2



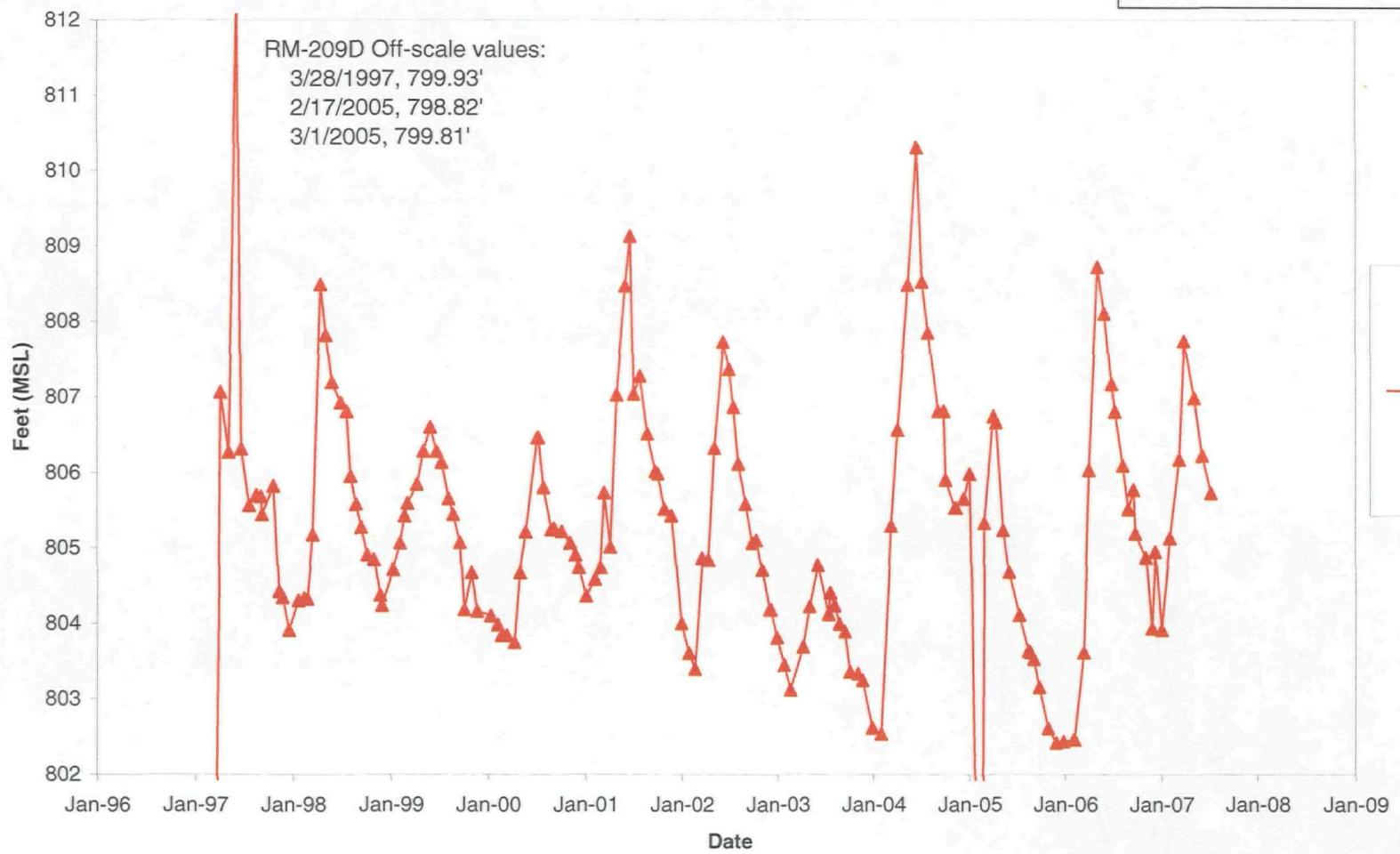
Groundwater Elevations Over Time Lemberger Landfill



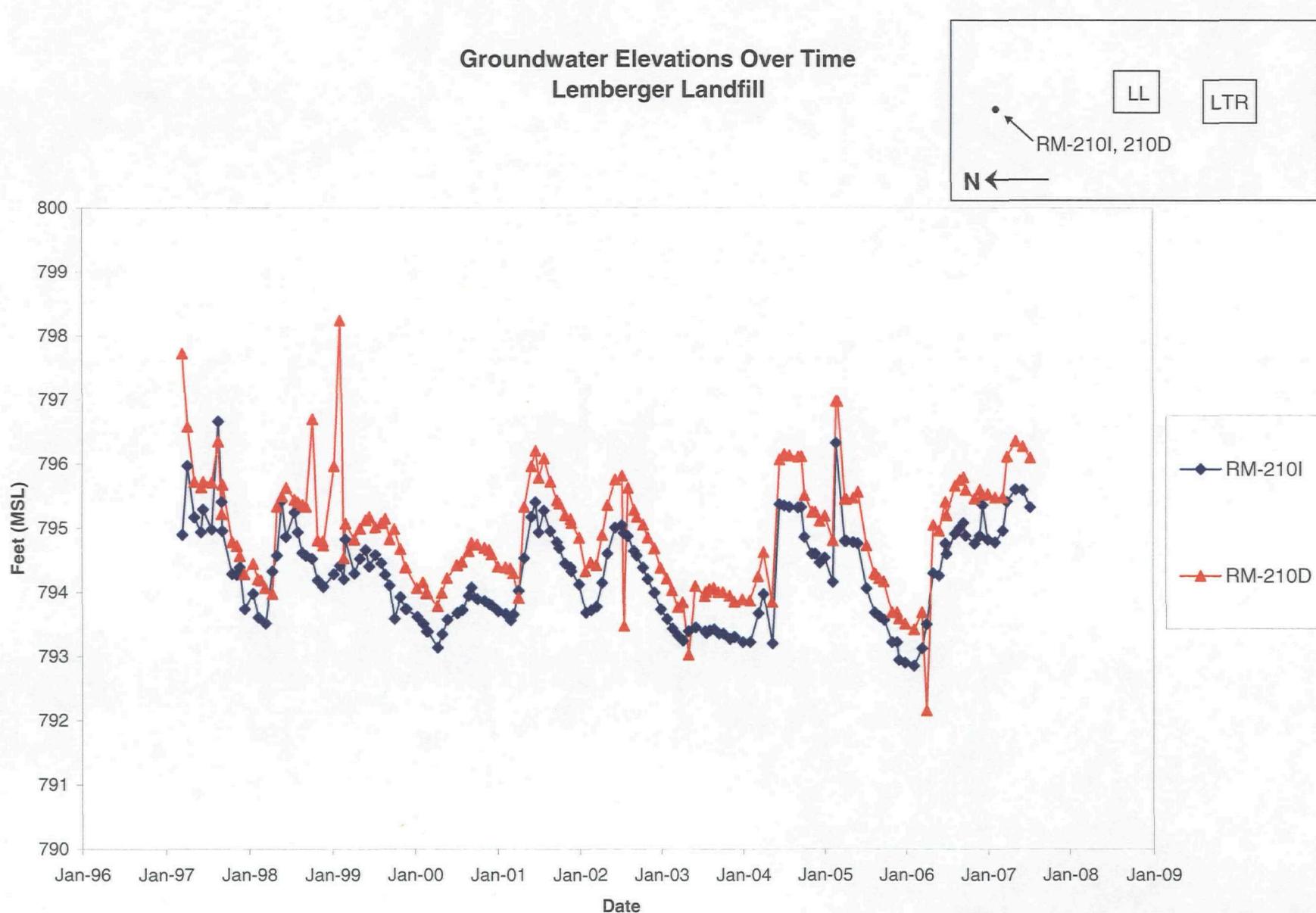
Groundwater Elevations Over Time Lemberger Landfill

LL
RM-209D
LTR

N ←



Groundwater Elevations Over Time Lemberger Landfill



Sc

Groundwater Elevations Over Time Lemberger Landfill

• RM-211

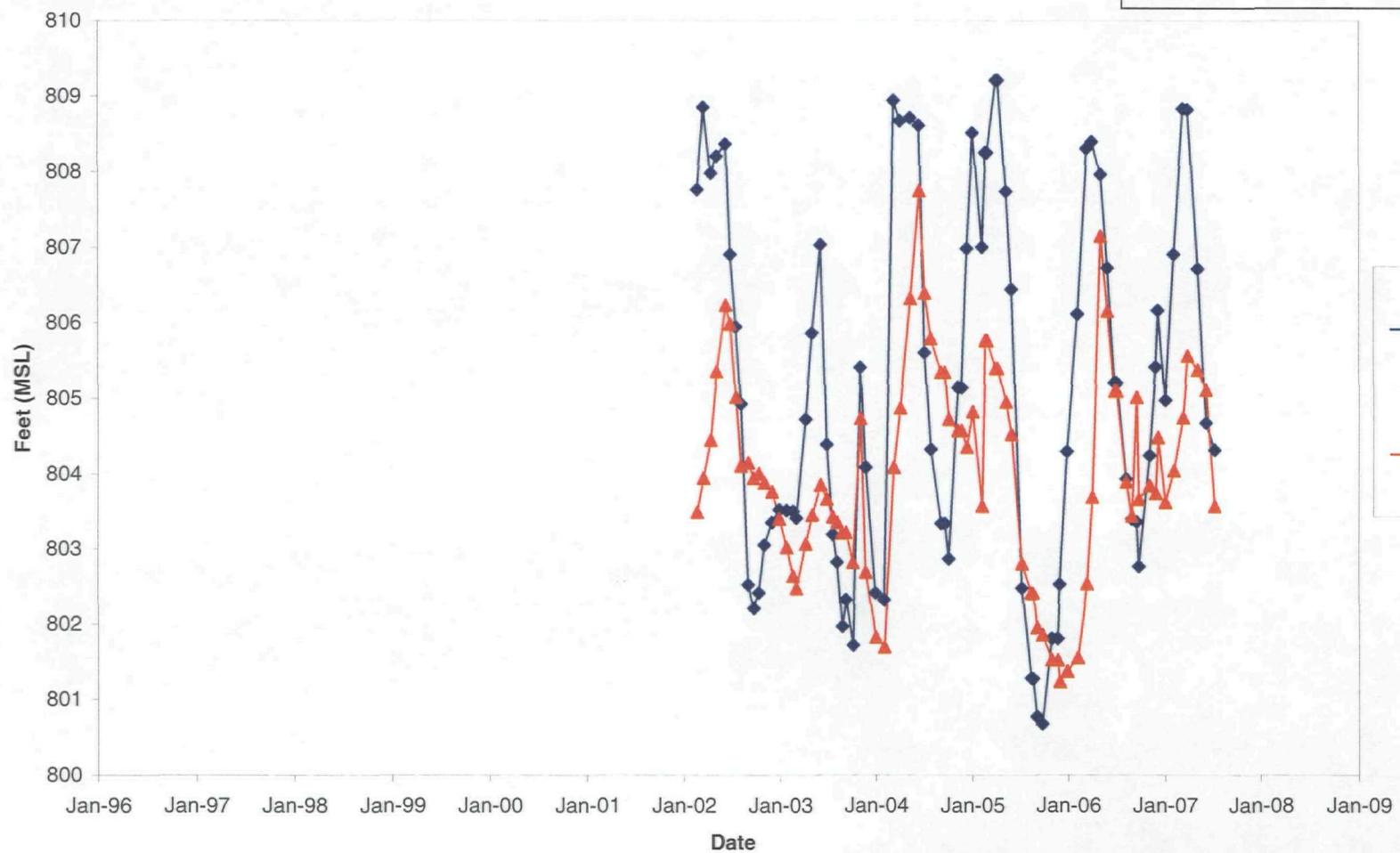
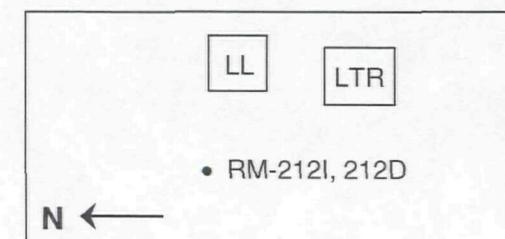
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RM-209D Off-scale values:

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- 6/9/2005, 787.95'

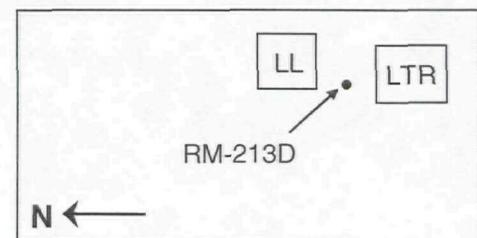
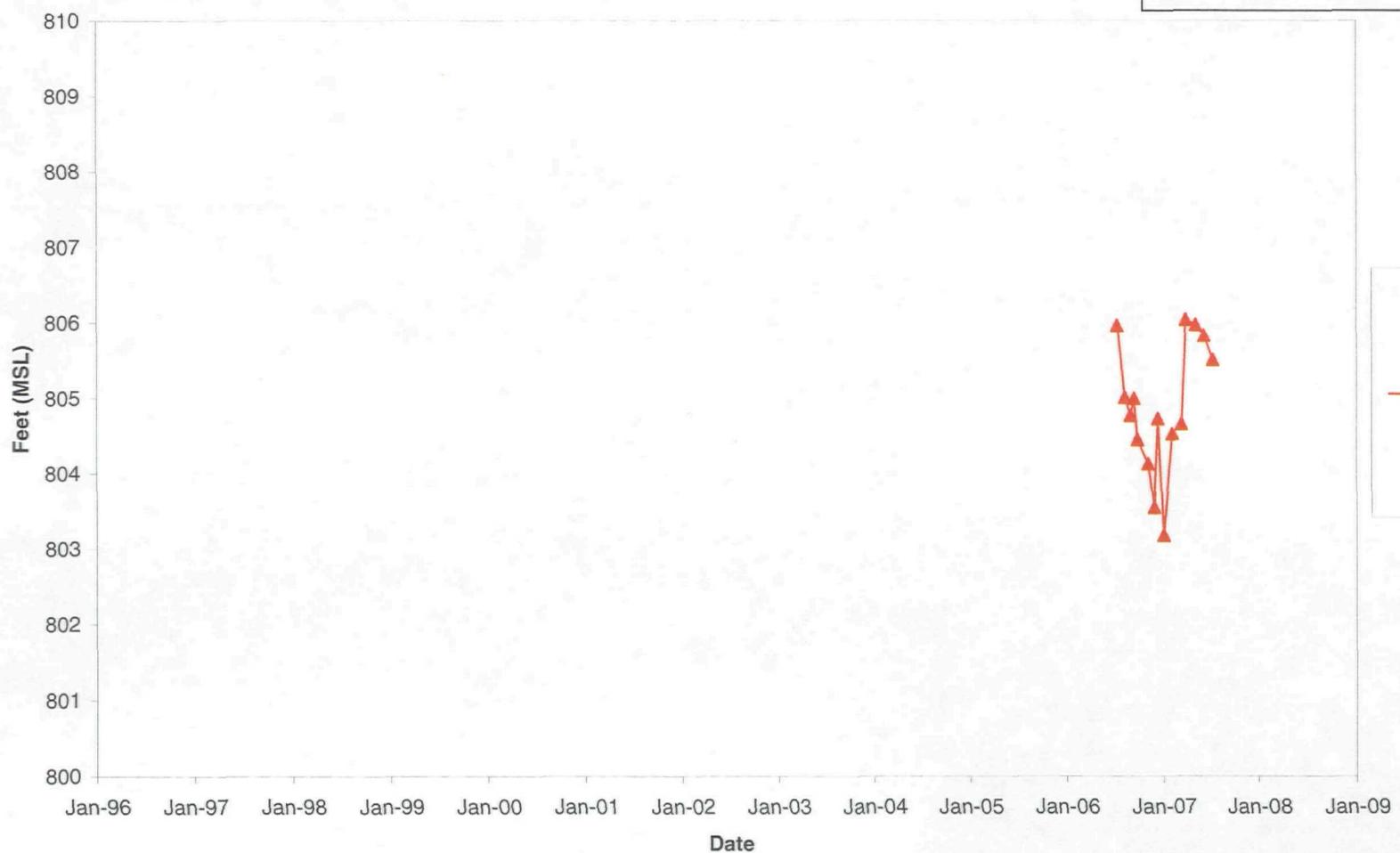
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Groundwater Elevations Over Time Lemberger Landfill



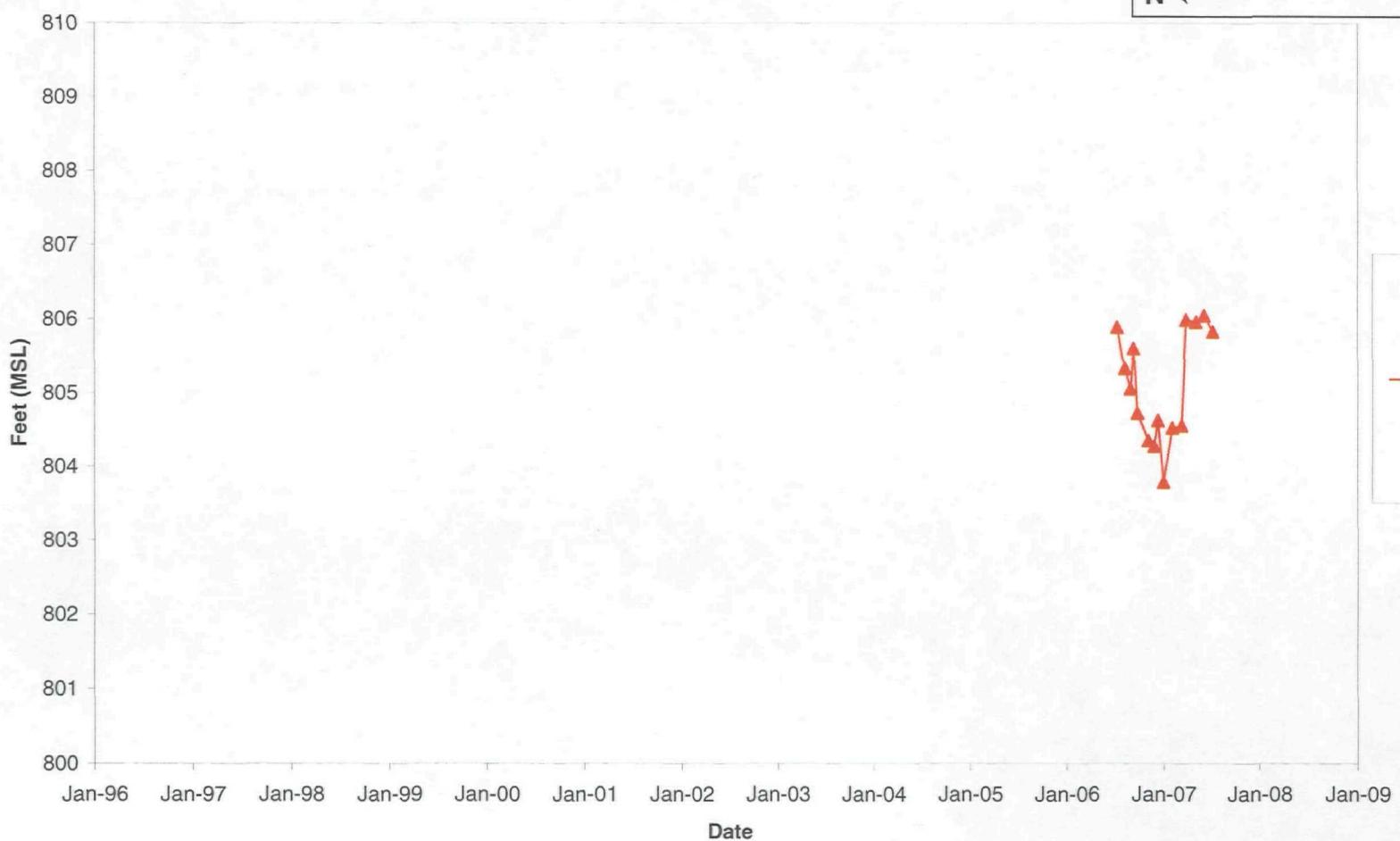
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Groundwater Elevations Over Time Lemberger Landfill

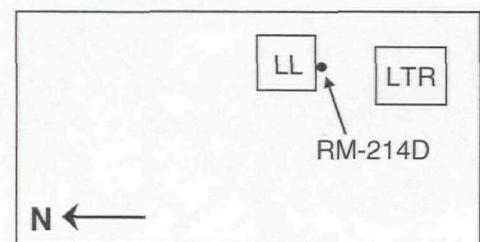


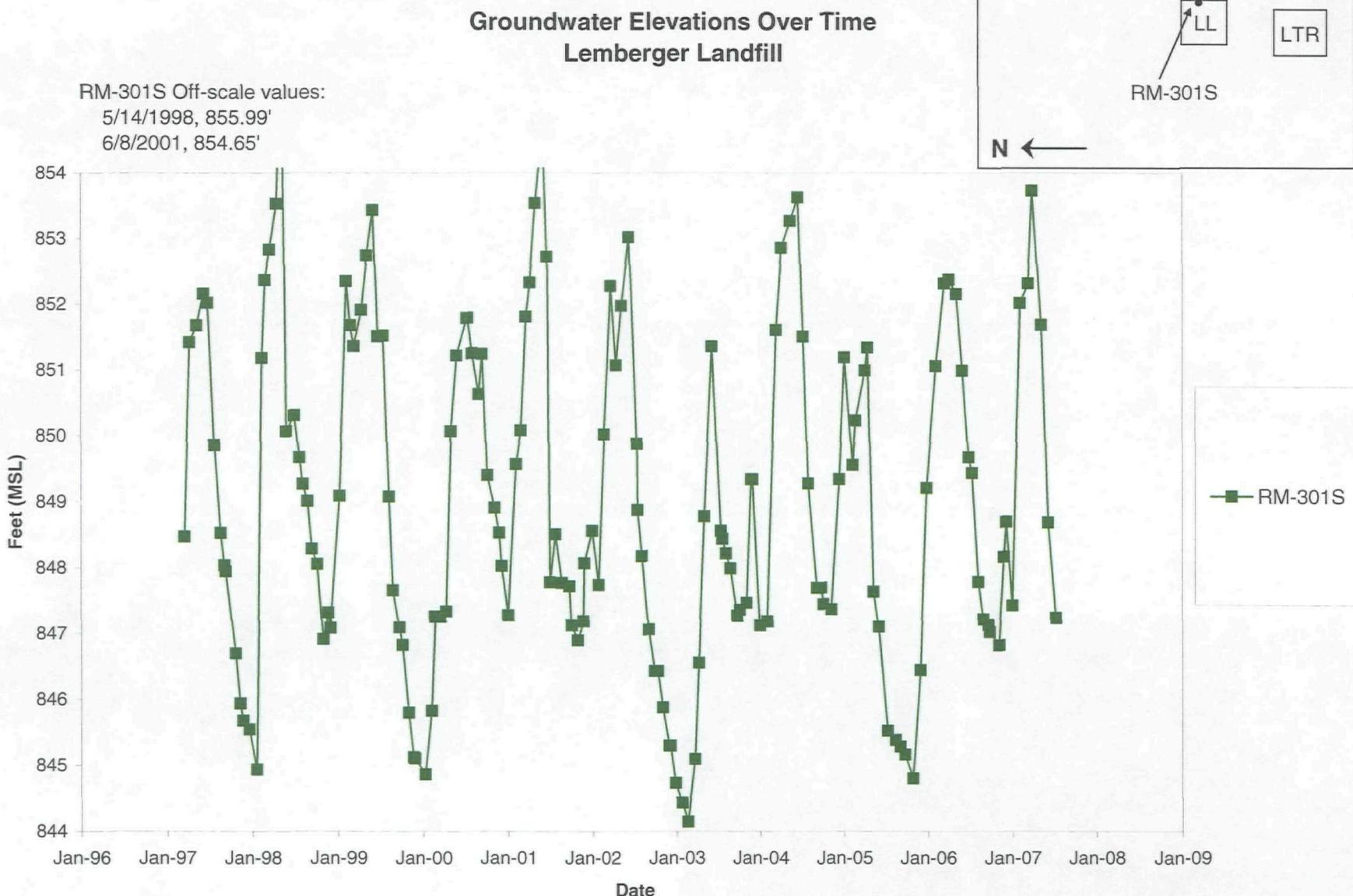
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Groundwater Elevations Over Time Lemberger Landfill



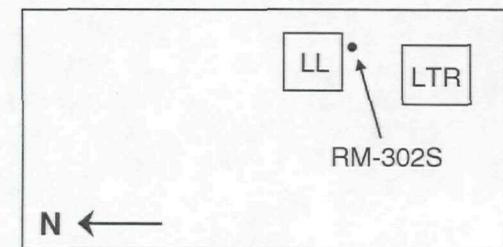
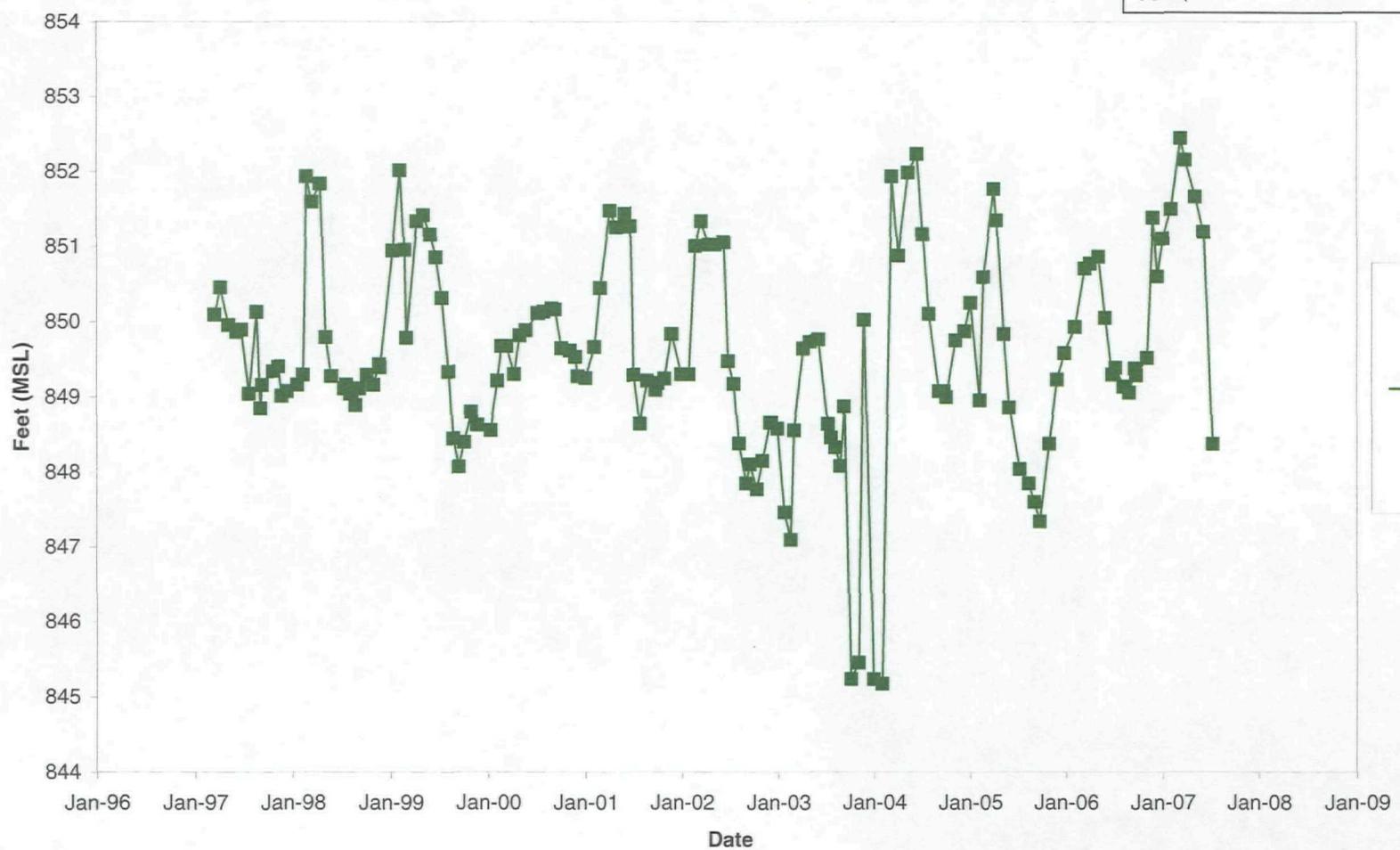
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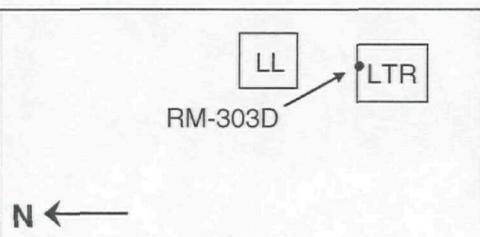
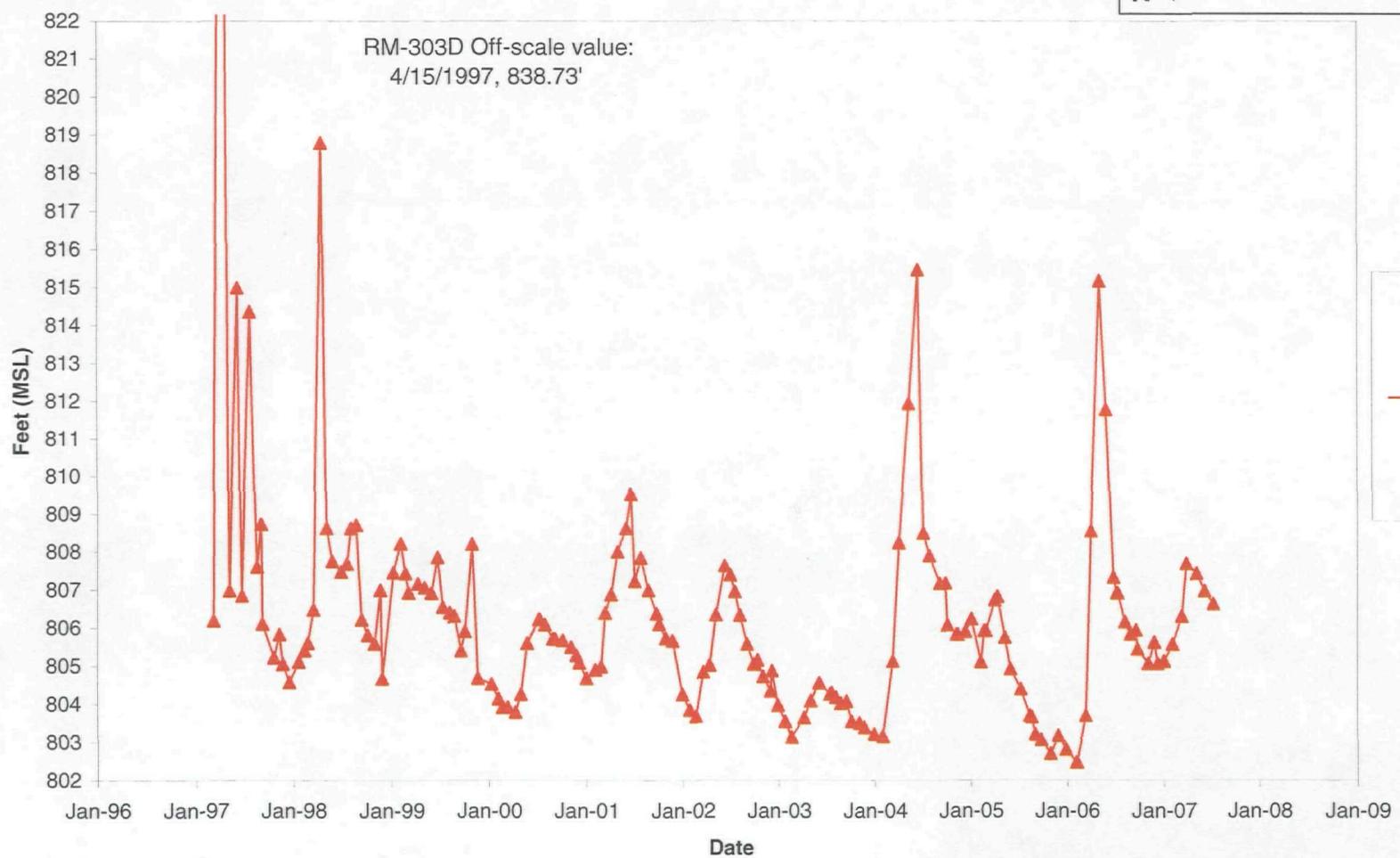


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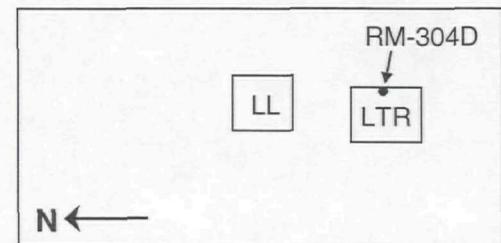
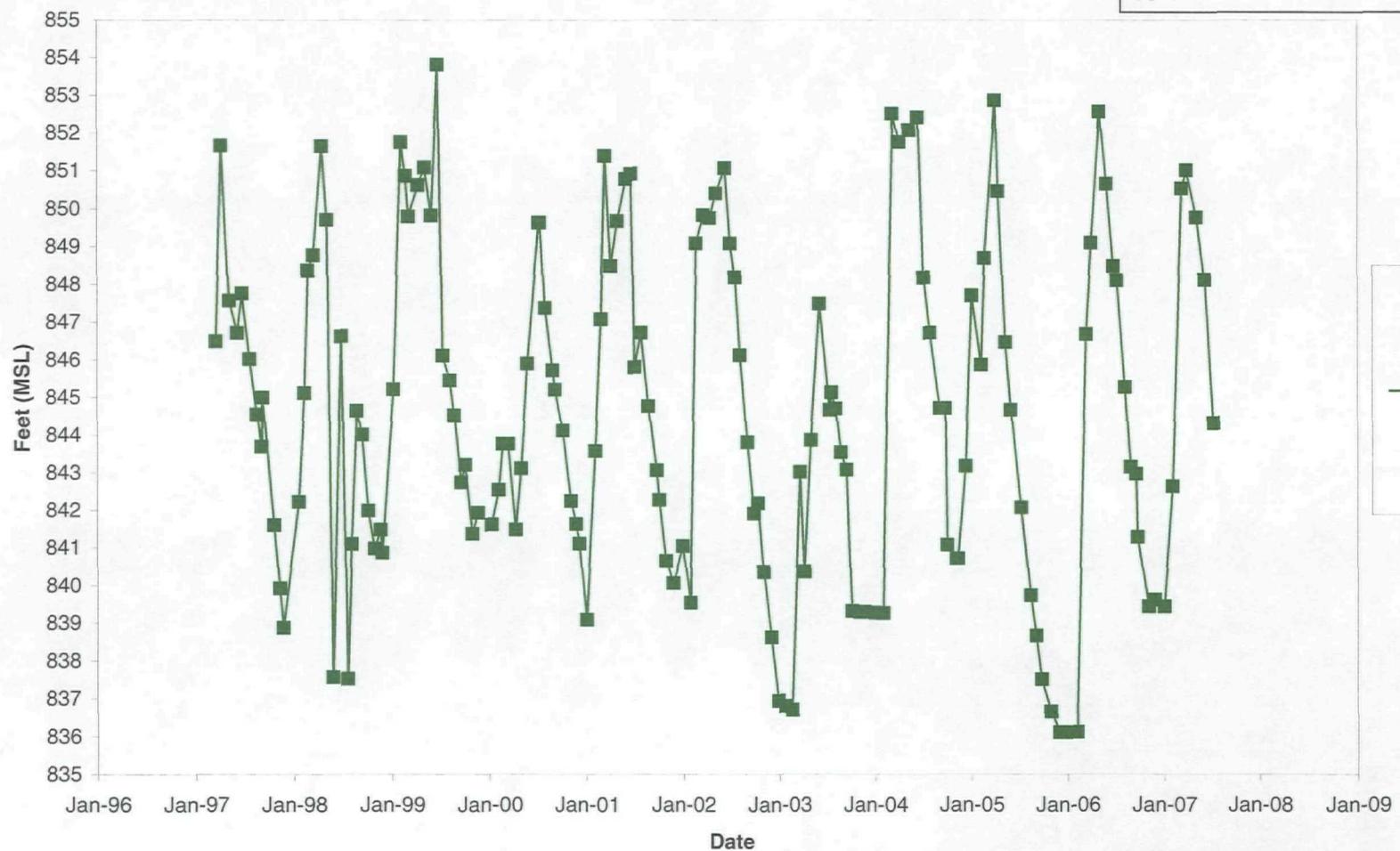
Groundwater Elevations Over Time Lemberger Landfill



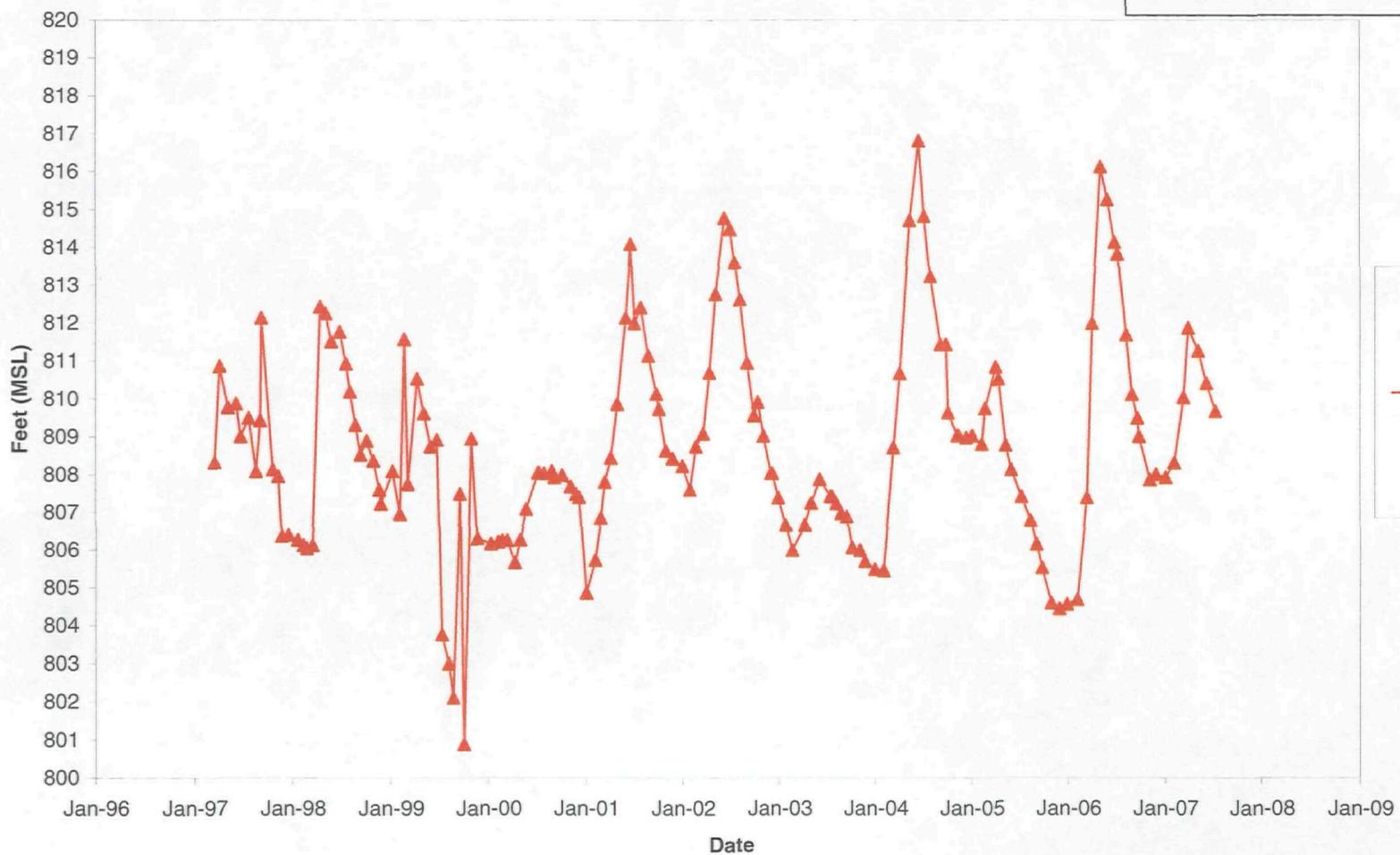
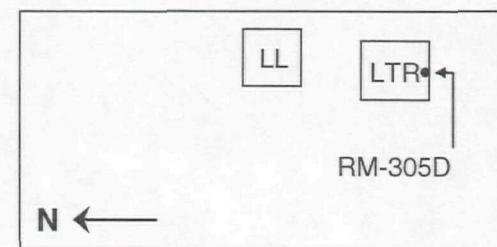
Groundwater Elevations Over Time
Lemberger Landfill



Groundwater Elevations Over Time Lemberger Landfill

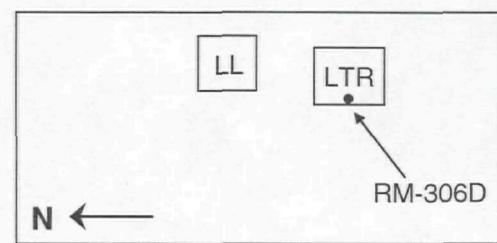
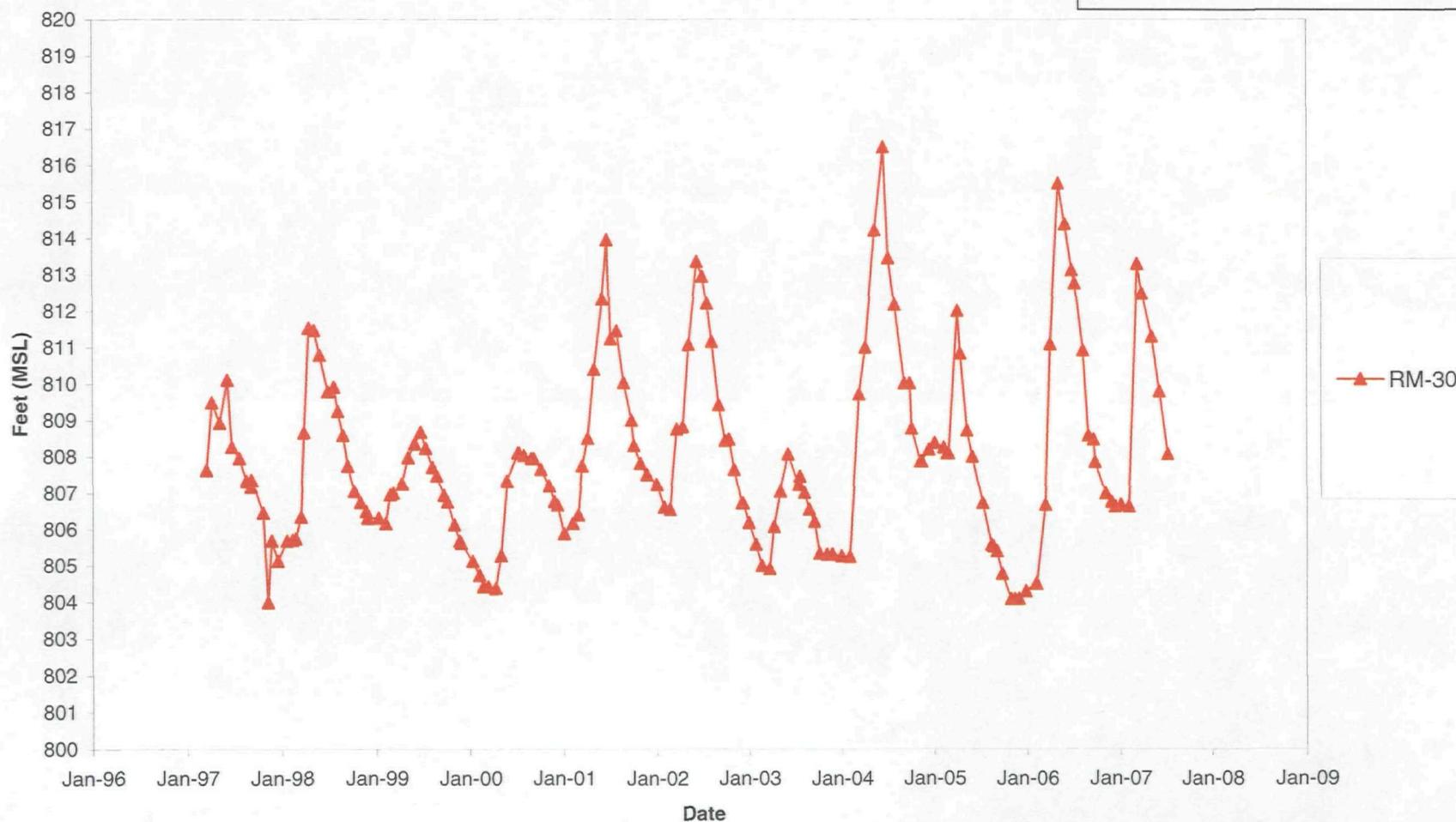


Groundwater Elevations Over Time Lemberger Landfill



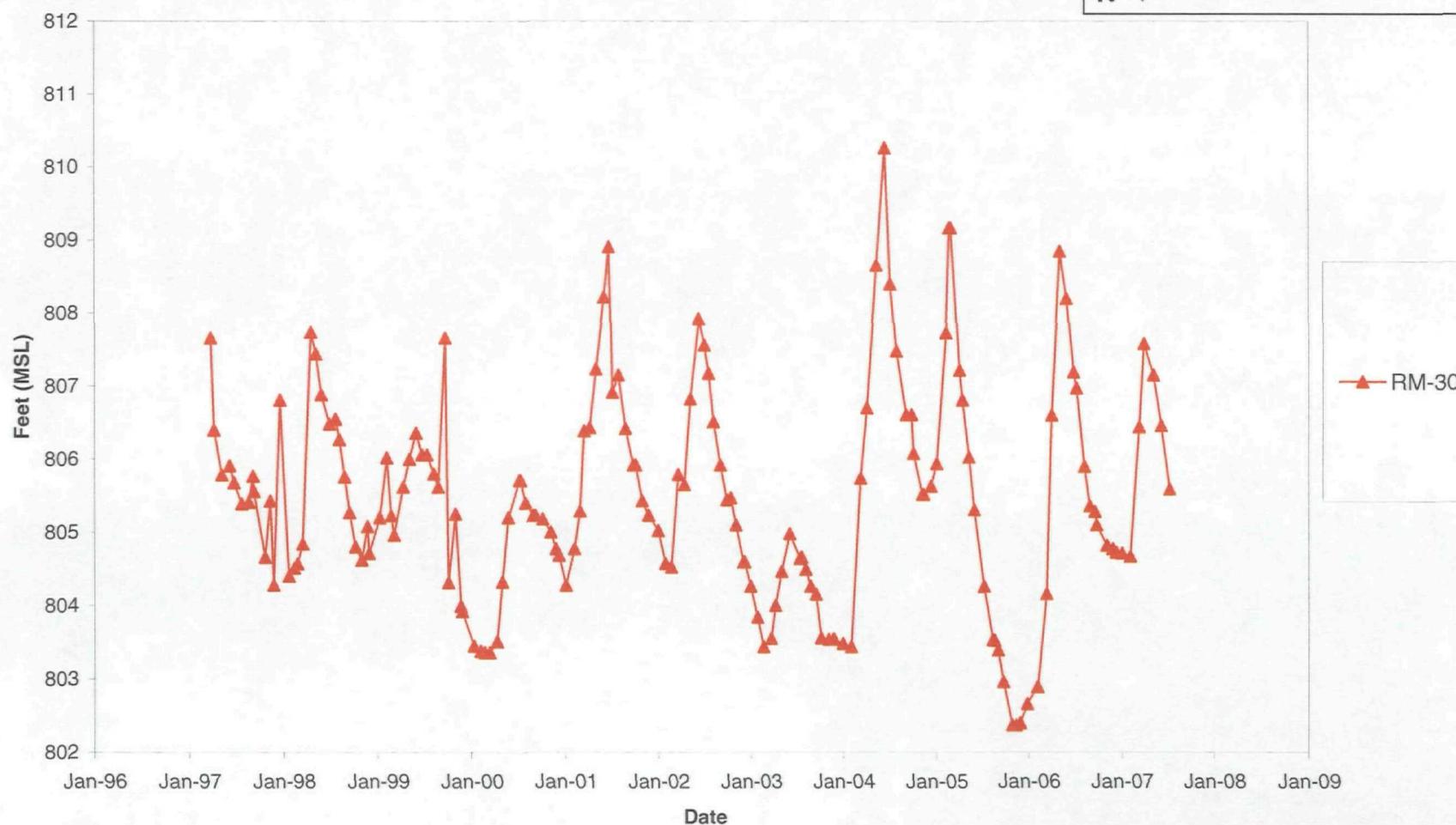
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Groundwater Elevations Over Time Lemberger Landfill

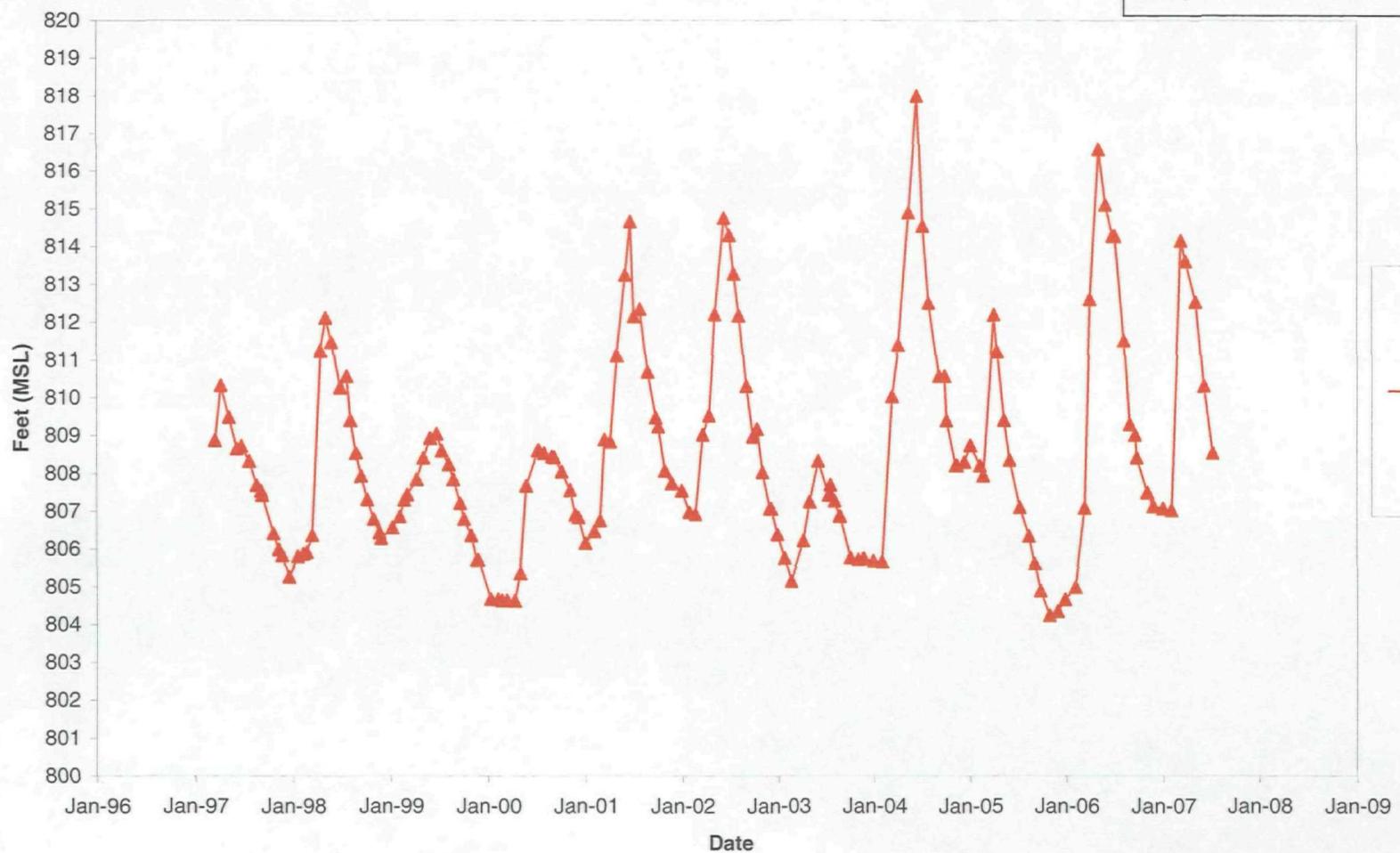
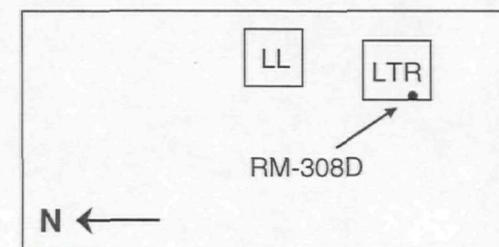


5c

Groundwater Elevations Over Time Lemberger Landfill



Groundwater Elevations Over Time Lemberger Landfill



LC/LC

APPENDIX B

Appendix B

Laboratory Analytical Results

Table B1
Plume Monitoring Well Data Summary
July 2006 - August 2007
Lemberger Landfill and Lemberger Transport and Recycling Sites

PARAMETER	UNITS	RM-002I 7/12/06	RM-002I DUP 7/12/06	RM-002I 9/26/06	RM-002I 4/17/07	RM-002I DUP 4/17/07	RM-003D 7/13/06	RM-003D 9/21/06	RM-003D 12/21/06	RM-003D 4/10/07	RM-003D 7/27/07	RM-003D DUP 7/27/07	RM-003I 7/13/06	RM-003I 9/21/06	RM-003I 12/21/06	RM-003I 4/10/07	RM-003I 7/30/07
FIELD PARAMETERS																	
ALKALINITY, FIELD	MG/L	590	--	275	--	--	520	302	--	--	272	--	323	266	--	--	216
CARBON DIOXIDE, FIELD	MG/L	62	--	188	--	--	450	204	--	--	98	--	70	144	--	--	62
CONDUCTANCE, SPECIFIC	UMHOS/CM	652	--	647	--	--	688	722	730	--	703	--	556	605	503	--	542
DISSOLVED OXYGEN, FIELD	MG/L	3.65	--	0.28	--	--	2.64	2.48	3.15	--	2.56	--	1.39	0.40	3.11	--	1.20
EH, FIELD	MV	218	--	194	--	--	167	290	281	--	266	--	113	185	177	--	146
FERROUS IRON, FIELD	MG/L	<0.2	--	0	--	--	<0.2	0	--	--	0	--	<0.2	0	--	--	0
PH, FIELD	SU	7.37	--	7.26	--	--	7.03	6.98	7.11	--	7.13	--	9.16	7.89	11.03	--	9.23
TEMPERATURE	DEG C	11.2	--	10.7	--	--	11.1	10.0	9.1	--	10.9	--	10.6	10.1	8.2	--	10.7
TURBIDITY, FIELD	NTU	1	--	1	--	--	1	0	0	--	0	--	84	29	32	--	49
INDICATOR PARAMETERS																	
ALKALINITY AS CACO ₃ , TOTAL	MG/L	320	320	310	330	330	330	340 Nj	--	340	--	--	200	--	--	--	190
CHLORIDE, TOTAL	MG/L	11 A	11 A	10 A	10	10	15 A	15 A	--	14	--	--	13 A	--	--	--	13
ETHANE	UG/L	<10	<10	<10	<10	<10	<10	<10	--	<10	--	--	<10	--	--	--	<10
ETHENE	UG/L	<10	<10	<10	<10	<10	<10	<10	--	<10	--	--	<10	--	--	--	<10
METHANE	UG/L	<10	<10	<10	<10	<10	<10	<10	--	<10	--	--	<10	--	--	--	<10
NITROGEN, NITRATE, TOTAL	MG/L	1.5	1.5	1.8	1.5 N	1.5	4.8	5.0	--	4.6	--	--	0.70	--	--	--	1.2
NITROGEN, NITRITE, TOTAL	MG/L	<0.040	<0.040	<0.040	<0.036	<0.036	<0.040	<0.040 N	--	<0.036	--	--	<0.040 N	--	--	--	<0.036 N
PH, LABORATORY	SU	7.6 HF	7.7 HF	7.6 HF	7.6 HF	7.4 HF	7.7 HF	7.4 HF	--	7.2 HF	--	--	8.2 HF	--	--	--	8.5 HF
SULFATE, TOTAL	MG/L	40	40	35	37	38	28	27	--	28	--	--	20	--	--	--	21
TOTAL INORGANIC CARBON	MG/L	75	73	81	78	75	78	90	--	85	--	--	58	--	--	--	40
TOTAL ORGANIC CARBON AS NPOC	MG/L	<0.72 A	1.3 QA	<0.72	<1.4	<1.4	<0.72 A	<0.72	--	<1.4	--	--	<0.72 A	--	--	--	<1.4
METALS																	
ALUMINUM, DISSOLVED	UG/L	<40	<40	<6.3	8.4 Q	27	<40	11 QAu	<6.3	<6.3	<4.4	<4.4	<40	9.5 QAu	<6.3	<6.3	<4.4
ANTIMONY, DISSOLVED	UG/L	<0.40	<0.40	<0.24	0.34 Q	0.59 Q	<0.40	0.40 Q	<0.24	<0.24	<0.10	<0.10	<0.40	<0.24	<0.24	<0.24	<0.10
ARSENIC, DISSOLVED	UG/L	0.49 Q	0.51 Q	0.28 Q	0.49	0.79	0.50 Q	0.30 Q	<0.13	<0.13	0.22 QAu	0.30 QAu	<0.40	<0.13	<0.13	<0.13	0.16 QAu
BARIUM, DISSOLVED	UG/L	64	57	56	55	55	32	31	34	32	31	31	54	41	62	58	50
BERYLLIUM, DISSOLVED	UG/L	<0.40	<0.40	<0.10	<0.10	0.12 Q	<0.40	<0.10	<0.10	<0.10	<0.070	<0.070	<0.40	<0.10	<0.10	<0.10	<0.070
CADMIUM, DISSOLVED	UG/L	<0.40	<0.40	<0.14	0.18 Q	0.40 Q	<0.40	<0.14	<0.12	<0.12	<0.097	<0.097	<0.40	<0.14	<0.12	<0.12	<0.097
CALCIUM, DISSOLVED	UG/L	64000	70000	74000	68000	68000	75000	81000	77000	79000	84000	86000	69000	66000	57000	69000	68000
CHROMIUM, DISSOLVED	UG/L	1.8 u	1.7 u	0.59 Q	3.5	3.9	0.63 Qu	0.60 Q	14	0.73 Q	1.5	0.58 Q	4.4 u	1.2	9.5	4.8	4.0
COBALT, DISSOLVED	UG/L	1.8	<0.40	0.60	0.35	0.93	1.4	0.10	0.11 u	0.25 A	0.22	0.10 Q	1.3 Q	0.58	3.7	1.4	0.34
COPPER, DISSOLVED	UG/L	<2.0	<2.0	0.59	0.85 Qu	1.2 Qu	<2.0	0.56	0.60 u	0.72 Qu	0.90 Au	0.92 Au	<2.0	0.79	0.88	0.90 Qu	0.97 AXu
IRON, DISSOLVED	UG/L	150	130 Q	120	290	330	150	150	130	240	230	240	130 Q	120	110	210	190
LEAD, DISSOLVED	UG/L	<0.40	<0.40	<0.049	2.0	0.53 u	<0.40	<0.049	<0.049	<0.049	<0.044	<0.044	<0.40	<0.049	<0.049	0.090 QA	<0.044
MAGNESIUM, DISSOLVED	UG/L	37000	42000	39000	38000	39000	41000	43000	37000	40000	43000	45000	37000	43000	29000	36000	39000
MANGANESE, DISSOLVED	UG/L	4.8	1.1 Q	1.3 Au	0.66 A	1.6 A	2.5	1.2 Au	0.13 Q	0.47 Au	0.45	0.25 Q	40	88	59	46	48
MANGANESE, TOTAL	UG/L	1.2 Q	1.6 Q	0.66 Au	0.76 Au	0.88 Au	1.9 Q	0.17 Q	--	0.14 Q	--	--	73	--	--	--	54
MERCURY, DISSOLVED	UG/L	<0.072	<0.072	<0.072	<0.013	<0.013	<0.072	<0.072	<0.072	<0.10	<0.10	<0.072	<0.072	<0.072	<0.072	<0.10	<0.10
NICKEL, DISSOLVED	UG/L	2.1 Q	1.8 Q	0.96 Q	2.1	2.6	2.2 Q	1.4	0.73 Q	1.8	1.2	1.1	4.1	3.8	3.8	4.0	3.4
POTASSIUM, DISSOLVED	UG/L	3000	2800	1300	3500	3700	1300	1300	1300	1300	1200	1300	2000	1500	2300	2100	2000
SELENIUM, DISSOLVED	UG/L	<4.0	<4.0	<0.67	<0.67	<0.67	<4.0	0.71 Qu	<0.67	<0.67	0.31 QAu	0.53 Au	<4.0	<0.67	<0.67	<0.67	0.33 QAu
SILVER, DISSOLVED	UG/L	<0.40	<0.40	<0.034	<0.034 A	0.30 A	<0.40	<0.034	<0.034	<0.034	<0.11	<0.11	<0.4				

Table B1
Plume Monitoring Well Data Summary
July 2006 - August 2007

Notes

Baseline MNA monitoring was conducted in July 200

Laboratory and data validation qualifier key in Table B.

"--" = not analyzed

Table B1
Plume Monitoring Well Data Summary
July 2006 - August 2007
Lemberger Landfill and Lemberger Transport and Recycling Sites

PARAMETER	UNITS	RM-004D 7/19/06	RM-004D 8/1/07	RM-004S 7/19/06	RM-004S 8/1/07	RM-005D 7/20/06	RM-005D DUP 7/20/06	RM-005D 9/27/06	RM-005D 12/16/06	RM-005D 4/23/07	RM-005D 7/27/07	RM-005I 7/20/06	RM-005I 9/27/06	RM-005I 12/16/06	RM-005I 4/23/07	RM-005I 7/27/07	
FIELD PARAMETERS																	
ALKALINITY, FIELD	MG/L	65	348	65	404	320	--	298	--	--	244	357	315	--	--	276	
CARBON DIOXIDE, FIELD	MG/L	188	192	124	176	138	--	116	--	--	132	240	218	--	--	126	
CONDUCTANCE, SPECIFIC	UMHOS/CM	1091	954	1034	1050	741	--	757	760	--	750	714	12	738	--	718	
DISSOLVED OXYGEN, FIELD	MG/L	1.24	6.14	0.51	1.45	1.19	--	1.58	1.81	--	1.68	0.81	1.20	1.38	--	1.76	
EH, FIELD	MV	224	280	79	241	139	--	294	258	--	220	191	237	256	--	278	
FERROUS IRON, FIELD	MG/L	0.4	0.1	<0.2	0	<0.2	--	0	--	--	0	<0.2	0	--	--	0	
PH, FIELD	SU	7.19	7.62	7.23	7.37	7.16	--	7.02	7.05	--	7.14	7.19	7.08	7.14	--	7.17	
TEMPERATURE	DEG C	11.2	11.7	10.5	12	12.7	--	10.1	9.7	--	10.8	11.3	9.8	8.2	--	11.9	
TURBIDITY, FIELD	NTU	78	24	85	22	1	--	0	0	--	0	11	12	9	--	17	
INDICATOR PARAMETERS																	
ALKALINITY AS CACO ₃ , TOTAL	MG/L	480	400	390	410	330	330 Hhj	350	--	350	340	330	--	--	350 N	--	
CHLORIDE, TOTAL	MG/L	59 A	49	79	78	17 A	17 A	18 A	--	21	14 A	15 A	--	--	18	--	
ETHANE	UG/L	<10	<10	<10	<10	<10	<10	<10	--	<10	<10	<10	<10	--	<10	--	
ETHENE	UG/L	<10	<10	<10	<10	<10	<10	<10	--	<10	<10	<10	<10	--	<10	--	
METHANE	UG/L	<10	<10	<10	<10	<10	<10	<10	--	<10	<10	<10	<10	--	<10	--	
NITROGEN, NITRATE, TOTAL	MG/L	1.0	1.7	0.60 N	0.29	6.5	6.4	6.5	--	7.6	4.5	5.0	--	--	6.2	--	
NITROGEN, NITRITE, TOTAL	MG/L	<0.040	<0.036	<0.040	<0.036	<0.040	<0.040	<0.040	--	<0.036	<0.040	<0.040	<0.040	--	<0.036	--	
PH, LABORATORY	SU	7.3 HF	7.7 HF	7.5 HF	7.5 HF	7.3 HF	7.5 HF	7.3 HF	--	7.2 HF	7.6 HF	7.4 HF	--	--	7.2 HF	--	
SULFATE, TOTAL	MG/L	19	28	65	59	26 A	26 A	28	--	33	25 A	25	--	--	30	--	
TOTAL INORGANIC CARBON	MG/L	120	92	91	100	84	83	87	--	86	82	88	--	--	84	--	
TOTAL ORGANIC CARBON AS NPOC	MG/L	5.4	2.8 Q	2.2 Q	<1.4	<0.72	<0.72	0.76 Q	--	<1.4	<0.72	<0.72	--	--	<1.4	--	
METALS																	
ALUMINUM, DISSOLVED	UG/L	<40	<4.4	<40	--	<40	<40	<6.3	<6.3	8.2 Q	<4.4	<40	<6.3	<6.3	<6.3	<4.4	
ANTIMONY, DISSOLVED	UG/L	<0.40	0.12 Q	<0.40	--	<0.40	<0.40	<0.24	<0.24	<0.24	<0.10	<0.40	<0.24	<0.24	<0.24	<0.10	
ARSENIC, DISSOLVED	UG/L	<0.40	0.16 Q	<0.40	--	<0.40	<0.40	0.16 Qu	0.21 QA	0.33 Q	0.10 QAU	<0.40	0.20 Qu	0.20 QA	0.16 QA	0.29 Q	0.17 QAU
BARIUM, DISSOLVED	UG/L	26	19	76	--	40	40	39	41	42	39	37	34	36	36	39	36
BERYLLIUM, DISSOLVED	UG/L	<0.40	<0.070	<0.40	--	<0.40	<0.40	<0.10	<0.10	<0.10	<0.070	<0.40	0.14 Q	<0.10	<0.10	<0.070	
CADMIUM, DISSOLVED	UG/L	<0.40	<0.097	<0.40	--	<0.40	<0.40	<0.14	<0.12	<0.12	<0.097	<0.40	<0.14	<0.12	<0.12	<0.097	
CALCIUM, DISSOLVED	UG/L	100000	89000	98000	--	87000	80000	84000	90000	82000	91000	80000	81000	83000	79000	80000	85000
CHROMIUM, DISSOLVED	UG/L	1.3 Qu	4.0	2.0 u	--	1.4 u	1.2 Qu	2.3	0.68 Q	0.92 Q	0.66 Q	<0.40	0.73 Q	0.62 Q	<0.32	0.57 Q	2.7
COBALT, DISSOLVED	UG/L	2.2	3.0	3.8	--	2.5	<0.40	0.75	0.14 u	1.4	0.57	0.71 Q	0.97	0.080 Qu	0.24 u	0.84	1.6
COPPER, DISSOLVED	UG/L	2.6 Q	3.0 AXu	<2.0	--	<2.0	<2.0	1.9	0.91 u	1.2 Qu	1.2 Au	<2.0	7.6	1.8 u	0.86 u	1.1 Qu	1.3 Au
IRON, DISSOLVED	UG/L	270	280	240	--	170	160	150	150	490	260	220	160	190	190	410	230
LEAD, DISSOLVED	UG/L	<0.40	<0.044	<0.40	--	<0.40	<0.40	<0.049	<0.049	<0.049	<0.044	<0.40	<0.049	<0.049	0.15 Qu	<0.049	<0.044
MAGNESIUM, DISSOLVED	UG/L	60000	55000	53000	--	42000	41000	42000	49000	42000	47000	39000	39000	45000	42000	42000	44000
MANGANESE, DISSOLVED	UG/L	330	180	17 A	--	4.8 A	1.2 QA	1.3 Au	0.44 A	0.59	0.53	2.0 Au	2.0 Au	0.71 A	0.89 A	2.2	3.6
MANGANESE, TOTAL	UG/L	3700	990	160	40	4.4	4.5	0.67 Au	--	1.3 A	--	3.4	1.7 Au	--	--	1.3 A	--
MERCURY, DISSOLVED	UG/L	<0.072	<0.10 A	<0.072	--	<0.072	<0.072	<0.072	<0.072	<0.013 A	<0.10	<0.072	<0.072	<0.072	<0.013 A	<0.10	
NICKEL, DISSOLVED	UG/L	110	94	260	--	3.7 Q	3.0 Q	2.3	1.6	3.0	1.6	2.9 Q	1.3	1.5	1.1	2.2	1.5
POTASSIUM, DISSOLVED	UG/L	820	710	2500	--	1600	1600	1500	1600	1600	1500	1600	1400	1500	1600	1500	1600
SELENIUM, DISSOLVED	UG/L	<4.0	0.35 Q	<4.0	--	<4.0	<4.0	<0.67	<0.67	1.1 Q	0.57 Au	<4.0	<0.67	<0.67	<0.67	0.80 Q	0.47 QAU
SILVER, DISSOLVED	UG/L	<0.40	<0.11	<0.40	--	<0.40	<0.40	<0.034	0.74 A	<0.034 A	<0.11	<0.40	<0.034	<0.034 A	<0.034 A	<0.11	
SODIUM, DISSOLVED	UG/L	6700	7200	20000	--	5800	6200	5700	5900	6000	5700	5100	4900	5500	5600	5300 A	5200

Table B1
Plume Monitoring Well Data Summary
July 2006 - August 2007
Lemberger Landfill and Lemberger Transport and Recycling Sites

PARAMETER	UNITS	RM-004D 7/19/06	RM-004D 8/1/07	RM-004S 7/19/06	RM-004S 8/1/07	RM-005D 7/20/06	RM-005D DUP 7/20/06	RM-005D 9/27/06	RM-005D 12/16/06	RM-005D 4/23/07	RM-005D 7/27/07	RM-005I 7/20/06	RM-005I 9/27/06	RM-005I 12/16/06	RM-005I DUP 12/16/06	RM-005I 4/23/07	RM-005I 7/27/07
VOLATILE ORGANICS																	
1,1,1-TRICHLOROETHANE	UG/L	<0.90	<0.90	<0.90	<0.90	27	25	32	29	29	28	13	13	12	12	14	12
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	
1,1,2-TRICHLOROETHANE	UG/L	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	
1,1-DICHLOROETHANE	UG/L	<0.75	<0.75	<0.75	<0.75	13	13	14	15	14	15	6.0	5.7	6.4	6.4	6.7	6.1
1,1-DICHLOROETHENE	UG/L	<0.57	<0.57	<0.57	<0.57	2.4	2.5	3.0	3.3	3.1	3.0	0.98 Q	1.2 Q	1.0 Q	1.1 Q	1.2 Q	0.98 Q
1,2-DICHLOROETHANE	UG/L	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	
1,2-DICHLOROETHENE, TOTAL	UG/L	<1.4	--	<1.4	--	8.7	8.6	9.1	9.7	--	--	2.9 Q	2.6 Q	3.0 Q	3.0 Q	--	--
1,2-DICHLOROPROPANE	UG/L	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	
2-BUTANONE	UG/L	<4.3 &	<4.3	<4.3 &	<4.3	<4.3 &	<4.3 &	<4.3	<4.3	<4.3	<4.3	<4.3 &	<4.3	<4.3	<4.3	<4.3	
2-HEXANONE	UG/L	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	
4-METHYL-2-PENTANONE	UG/L	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	
ACETONE	UG/L	3.9 Qu	<2.2	<2.3	<2.2	<2.3	3.7 Qu	<2.3	<2.3	<2.3	<2.2	<2.3	<2.3	<2.3	<2.3	<2.3	
BENZENE	UG/L	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	
BROMODICHLOROMETHANE	UG/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	
BROMOFORM	UG/L	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	
BROMOMETHANE	UG/L	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	
CARBON DISULFIDE	UG/L	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	
CARBON TETRACHLORIDE	UG/L	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	
CHLOROBENZENE	UG/L	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	
CHLORODIBROMOMETHANE	UG/L	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	
CHLOROETHANE	UG/L	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	
CHLOROFORM	UG/L	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	
CHLOROMETHANE	UG/L	<0.24	<0.24	<0.24	<0.24	0.70 Qu	0.84 u	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	
CIS-1,2-DICHLOROETHENE	UG/L	<0.83	<0.83	<0.83	<0.83	8.7	8.6	9.1	9.7	9.0	9.0	2.9	2.6 Q	3.0	3.0	3.4	2.7 Q
CIS-1,3-DICHLOROPROPENE	UG/L	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	
ETHYLBENZENE	UG/L	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	
METHYLENE CHLORIDE	UG/L	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	
STYRENE	UG/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	
TETRACHLOROETHENE	UG/L	1.6 Xu	<0.45	2.1 Xu	<0.45	1.4 QXu	1.2 QXu	<0.45	<0.45	<0.45	<0.45	1.4 QXu	<0.45	<0.45	<0.45	<0.45	
TOLUENE	UG/L	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	
TRANS-1,2-DICHLOROETHENE	UG/L	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	
TRANS-1,3-DICHLOROPROPENE	UG/L	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	
TRICHLOROETHENE	UG/L	<0.48	<0.48	<0.48	<0.48	2.7	2.9	4.0	3.6	3.4	3.2	1.6 Q	1.5 Q	1.6 Q	1.6 Q	1.8	1.4 Q
VINYL CHLORIDE	UG/L	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	
XYLENE, TOTAL	UG/L	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	

Notes:

Baseline MNA monitoring was conducted in July 2006.

Laboratory and data validation qualifier key in Table B5.

-- = not analyzed.

Table B1
Plume Monitoring Well Data Summary
July 2006 - August 2007
Lemberger Landfill and Lemberger Transport and Recycling Sites

PARAMETER	UNITS	RM-005S 7/20/06	RM-005S 9/27/06	RM-005S 12/16/06	RM-005S 4/23/07	RM-005S 7/27/07	RM-007D 7/14/06	RM-007D 9/21/06	RM-007D 12/18/06	RM-007D DUP 12/18/06	RM-007D 4/24/07	RM-007D 8/1/07	RM-007S 7/14/06	RM-007S 9/21/06	RM-007S 12/18/06	RM-007S 4/24/07	RM-007S 8/1/07
FIELD PARAMETERS																	
ALKALINITY, FIELD	MG/L	394	343	--	--	340	495	472	1633	--	--	440	400	434	--	--	328
CARBON DIOXIDE, FIELD	MG/L	202	1732	--	--	192	260	244	178	--	--	236	280	304	--	--	122
CONDUCTANCE, SPECIFIC	UMHOS/CM	1097	1070	1075	--	1018	984	1005	1002	--	--	1028	1145	1086	976	--	1078
DISSOLVED OXYGEN, FIELD	MG/L	0.41	1.64	4.46	--	2.58	2.49	6.08	3.88	--	--	2.92	0.49	0.45	2.62	--	0.30
EH, FIELD	MV	119	172	220	--	262	224	278	287	--	--	303	110	174	282	--	180
FERROUS IRON, FIELD	MG/L	0.5	0	--	--	0	<0.2	0	0	--	--	0	<0.2	0	--	--	0
PH, FIELD	SU	6.90	6.86	7.01	--	6.97	6.80	6.84	6.79	--	--	6.90	6.83	6.76	7.02	--	6.95
TEMPERATURE	DEG C	13.1	12.0	8.9	--	13.1	10.5	9.9	8.4	--	--	11.5	12.5	13.0	7.8	--	15.1
TURBIDITY, FIELD	NTU	70	23	6	--	22	3	1	0	--	--	1	3	1	2	--	3
INDICATOR PARAMETERS																	
ALKALINITY AS CACO ₃ , TOTAL	MG/L	380	390	--	360	--	490	490	500	500	490	510	410	--	--	--	410
CHLORIDE, TOTAL	MG/L	53 A	56	--	42	--	15 A	14 A	12	12	11	13	6.0 A	--	--	--	6.3
ETHANE	UG/L	<10	<10	--	<10	--	<10	<10	<10	<10	<10	<10	<10	<10	--	--	<10
ETHENE	UG/L	<10	<10	--	<10	--	<10	<10	<10	<10	<10	<10	<10	<10	--	--	<10
METHANE	UG/L	<10	<10	--	11	--	<10	<10	<10	<10	86	<10	<10	--	--	--	<10
NITROGEN, NITRATE, TOTAL	MG/L	0.25 Q	0.42	--	0.25 Q	--	2.1	1.7	1.2	1.2	0.58	1.3	0.38	--	--	--	0.15 Q
NITROGEN, NITRITE, TOTAL	MG/L	<0.040	<0.040	--	<0.036	--	<0.040	<0.040	<0.040	<0.040	<0.036	<0.036	<0.040	--	--	--	<0.036
PH, LABORATORY	SU	7.1 HF	7.1 HF	--	7.1 HF	--	7.0 HF	7.1 HF	6.7 HF	6.7 HF	6.7 HF	6.8 HF	7.1 HF	--	--	--	6.8 HF
SULFATE, TOTAL	MG/L	99	100	--	81	--	43	50	48	48	39	68	220	--	--	--	220
TOTAL INORGANIC CARBON	MG/L	97	110	--	88	--	120	130	130	130	120	130	110	--	--	--	99
TOTAL ORGANIC CARBON AS NPOC	MG/L	2.7	3.1	--	2.2 Q	--	3.1 A	1.8 Q	<0.72	<0.72	1.9 Q	1.7 Q	4.1 A	--	--	--	3.1 Q
METALS																	
ALUMINUM, DISSOLVED	UG/L	<40	<6.3	<6.3	<6.3	5.7 Q	<40	<6.3	<6.3	<6.3	14 Q	<4.4	<40	9.9 Qu	<6.3	<6.3	<4.4
ANTIMONY, DISSOLVED	UG/L	<0.40	<0.24	<0.24	<0.24	<0.10	<0.40	<0.24	<0.24	<0.24	0.45 Q	0.21 Q	<0.40	<0.24	<0.24	<0.24	0.16 Q
ARSENIC, DISSOLVED	UG/L	<0.40	0.30 Qu	0.24 QA	0.17 Q	0.13 QAu	<0.40	<0.13	<0.13	<0.13	0.38 Q	0.40	0.59 Q	0.14 Qu	0.21 Q	<0.13	0.28 Q
BARIUM, DISSOLVED	UG/L	48	50	43	37	48	78	82	84	83	71	77	75	66	53	63	55
BERYLLIUM, DISSOLVED	UG/L	<0.40	0.13 Q	<0.10	<0.10	<0.070	<0.40	<0.10	<0.10	<0.10	0.21 Q	0.080 Q	<0.40	<0.10	<0.10	<0.10	<0.070
CADMIUM, DISSOLVED	UG/L	<0.40	<0.14	<0.12	<0.12	<0.097	<0.40	<0.14	<0.12	<0.12	0.28 Q	<0.097	<0.40	<0.14	<0.12	0.14 Q	<0.097
CALCIUM, DISSOLVED	UG/L	99000	110000	120000	89000	110000	110000	120000	120000	120000	110000	120000	150000	130000	120000	160000	130000
CHROMIUM, DISSOLVED	UG/L	0.41 Qu	1.3	0.67 Q	0.69 Q	1.3 Q	1.5 u	1.7	1.4 u	1.4 u	1.6	1.7	0.41 Qu	<0.32	0.96 Qu	0.33 Q	0.99 Q
COBALT, DISSOLVED	UG/L	1.4	0.60	0.69 u	0.95	0.27	1.7	0.15	0.13 Au	0.13 Au	3.4	1.8 Eu	1.9	0.66	0.34 Au	1.4	3.5
COPPER, DISSOLVED	UG/L	2.2 Q	11	3.2 u	2.3	2.6 Au	2.0 Q	1.8	1.6 u	1.3 u	2.2 u	3.4 AXu	6.4 Q	5.3	5.7	5.8 u	6.9 X
IRON, DISSOLVED	UG/L	310	280	270	440	340	270	220	200	190	1700 E	350	320	300	180	2600	420
LEAD, DISSOLVED	UG/L	<0.40	<0.049	<0.049	<0.049	<0.044	<0.40	0.050 Qu	0.11 Q	0.090 Q	0.28 Au	0.050 QA	<0.40	0.070 Qu	0.070 Qu	0.060 Qu	<0.044 A
MAGNESIUM, DISSOLVED	UG/L	51000	56000	64000	46000	58000	56000	61000	57000	58000	54000	58000	70000	68000	55000	78000	62000
MANGANESE, DISSOLVED	UG/L	16 A	19	12 A	8.5	12	6.2 1	1.4 Au	1.3 Au	1.4 Au	5.9	4.3	45 1	180	54	89	190
MANGANESE, TOTAL	UG/L	28 Ej	49	--	34	--	4.4	4.4	6.0	7.4	19	44	41	--	--	--	200
MERCURY, DISSOLVED	UG/L	<0.072	<0.072	<0.072	<0.013 A	<0.10	<0.072	<0.072	<0.072	<0.072	<0.013 A	<0.10	<0.072	<0.072	<0.072	<0.013 A	<0.10
NICKEL, DISSOLVED	UG/L	6.4	2.9	2.6	2.8	2.5	9.7	6.0	3.2	3.2	5.5	6.0	4.4	4.7	3.2	5.7	4.9
POTASSIUM, DISSOLVED	UG/L	1500	1600	1800	1400	1500	2300	2900	2700	2700	2400	2800	7800	6600	5200	4400	4400
SELENIUM, DISSOLVED	UG/L	<4.0	0.73 Q	<0.67	<0.67	<0.15	<4.0	<0.67	<0.67	<0.67	0.85 Q	0.77 u	<4.0	<0.67	<0.67	<0.67	0.36 Qu
SILVER, DISSOLVED	UG/L	<0.40	<0.034	<0.034 A	<0.034 A	<0.11	<0.										

Table B1
Plume Monitoring Well Data Summary
July 2006 - August 2007
Lemberger Landfill and Lemberger Transport and Recycling Sites

PARAMETER	UNITS	RM-005S 7/20/06	RM-005S 9/27/06	RM-005S 12/16/06	RM-005S 4/23/07	RM-005S 7/27/07	RM-007D 7/14/06	RM-007D 9/21/06	RM-007D 12/18/06	RM-007D DUP 12/18/06	RM-007D 4/24/07	RM-007D 8/1/07	RM-007S 7/14/06	RM-007S 9/21/06	RM-007S 12/18/06	RM-007S 4/24/07	RM-007S 8/1/07
VOLATILE ORGANICS																	
1,1,1-TRICHLOROETHANE	UG/L	<0.90	<0.90	<0.90	<0.90	460	590	520	540	680	610	<0.90	<0.90	<0.90	<0.90	1.2 Q	
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.20	<0.20	<0.20	<0.20	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.20	<0.20	<0.20	<0.20	<0.20	
1,1,2-TRICHLOROETHANE	UG/L	<0.42	<0.42	<0.42	<0.42	<0.42	<2.1	<2.1	<2.1	<2.1	<4.2	<0.42	<0.42	<0.42	<0.42	<0.42	
1,1-DICHLOROETHANE	UG/L	<0.75	<0.75	<0.75	<0.75	<0.75	290	400	360	380	380	400	<0.75	1.1 Q	1.2 Q	0.99 Q	1.5 Q
1,1-DICHLOROETHENE	UG/L	<0.57	<0.57	<0.57	<0.57	<0.57	28	39	35	39	50	38	<0.57	<0.57	<0.57	<0.57	<0.57
1,2-DICHLOROETHANE	UG/L	<0.36	<0.36	<0.36	<0.36	<0.36	<1.8	<1.8	<1.8	<1.8	<1.8	<3.6	<0.36	<0.36	<0.36	<0.36	<0.36
1,2-DICHLOROETHENE, TOTAL	UG/L	<1.4	<1.4	<1.4	--	--	94	160	140	150	--	--	<1.4	1.6 Q	1.6 Q	--	--
1,2-DICHLOROPROPANE	UG/L	<0.46	<0.46	<0.46	<0.46	<0.46	<2.3	<2.3	<2.3	<2.3	<2.3	<4.6	<0.46	<0.46	<0.46	<0.46	<0.46
2-BUTANONE	UG/L	<4.3 &	<4.3	<4.3	<4.3	<4.3	<22	<22	<22	<22	<22	<43	<4.3	<4.3	<4.3	<4.3	<4.3
2-HEXANONE	UG/L	<1.1	<1.1	<1.1	<1.1	<1.1	<5.5	<5.5	<5.5	<5.5	<5.5	<11	<1.1	<1.1	<1.1	<1.1	<1.1
4-METHYL-2-PENTANONE	UG/L	<1.2	<1.2	<1.2	<1.2	<1.2	<6.0	<6.0	<6.0	<6.0	<6.0	<12	<1.2	<1.2	<1.2	<1.2	<1.2
ACETONE	UG/L	3.5 Qu	<2.3	<2.3	<2.3	<2.2	<12	<12	<12	<12	<12	<22	<2.3	<2.3	<2.3	<2.2	<2.2
BENZENE	UG/L	<0.41	<0.41	<0.41	<0.41	<0.41	<2.0	<2.0	<2.0	<2.0	<2.0	<4.1	<0.41	<0.41	<0.41	<0.41	<0.41
BROMODICHLOROMETHANE	UG/L	<0.56	<0.56	<0.56	<0.56	<0.56	<2.8	<2.8	<2.8	<2.8	<2.8	<5.6	<0.56	<0.56	<0.56	<0.56	<0.56
BROMOFORM	UG/L	<0.94	<0.94	<0.94	<0.94	<0.94	<4.7	<4.7	<4.7	<4.7	<4.7	<9.4	<0.94	<0.94	<0.94	<0.94	<0.94
BROMOMETHANE	UG/L	<0.91	<0.91	<0.91	<0.91	<0.91	<4.6	<4.6	<4.6	<4.6	<4.6	<9.1	<0.91	<0.91	<0.91	<0.91	<0.91
CARBON DISULFIDE	UG/L	<0.66	<0.66	<0.66	<0.66	<0.66	<3.3	<3.3	<3.3	<3.3	<3.3	<6.6	<0.66	<0.66	<0.66	<0.66	<0.66
CARBON TETRACHLORIDE	UG/L	<0.49	<0.49	<0.49	<0.49	<0.49	<2.4	<2.4	<2.4	<2.4	<2.4	<4.9 &	<0.49	<0.49	<0.49	<0.49	<0.49 &
CHLOROBENZENE	UG/L	<0.41	<0.41	<0.41	<0.41	<0.41	<2.0	<2.0	<2.0	<2.0	<2.0	<4.1	<0.41	<0.41	<0.41	<0.41	<0.41
CHLORODIBROMOMETHANE	UG/L	<0.81	<0.81	<0.81	<0.81	<0.81	<4.1	<4.1	<4.1	<4.1	<4.1	<8.1	<0.81	<0.81	<0.81	<0.81	<0.81
CHLOROETHANE	UG/L	<0.97	<0.97	<0.97	<0.97	<0.97	<4.8	<4.8	<4.8	<4.8	<4.8	52	<9.7	<0.97	<0.97	<0.97	<0.97
CHLOROFORM	UG/L	<0.37	<0.37	<0.37	<0.37	<0.37	<1.8	<1.8	<1.8	<1.8	<1.8	<3.7	<0.37	<0.37	<0.37	<0.37	<0.37
CHLOROMETHANE	UG/L	<0.24	<0.24	<0.24	<0.24	<0.24	<1.2	<1.2	<1.2	<1.2	<1.2	<2.4	<0.24	<0.24	<0.24	<0.24	<0.24
CIS-1,2-DICHLOROETHENE	UG/L	<0.83	<0.83	<0.83	<0.83	<0.83	94	160	140	150	140	140	<0.83	1.6 Q	1.6 Q	1.1 Q	2.3 Q
CIS-1,3-DICHLOROPROPENE	UG/L	<0.19	<0.19	<0.19	<0.19	<0.19	<0.95	<0.95	<0.95	<0.95	<0.95	<1.9	<0.19	<0.19	<0.19	<0.19	<0.19
ETHYLBENZENE	UG/L	<0.54	<0.54	<0.54	<0.54	<0.54	<2.7	<2.7	<2.7	<2.7	<2.7	<5.4	<0.54	<0.54	<0.54	<0.54	<0.54
METHYLENE CHLORIDE	UG/L	<0.43	<0.43	<0.43	<0.43	<0.43	<2.2	<2.2	5.3 QBu	6.3 QBu	<2.2	<4.3	<0.43	<0.43	<0.43	<0.43	<0.43
STYRENE	UG/L	<0.86	<0.86	<0.86	<0.86	<0.86	<4.3	<4.3	<4.3	<4.3	<4.3	<8.6	<0.86	<0.86	<0.86	<0.86	<0.86
TETRACHLOROETHENE	UG/L	0.80 QXu	<0.45	<0.45	<0.45	<0.45	7.0 Q	2.7 Q	2.8 Q	3.0 Q	4.9 Q	4.8 Q	1.6 Xu	<0.45	<0.45	<0.45	<0.45
TOLUENE	UG/L	<0.67	<0.67	<0.67	<0.67	<0.67	<3.4	<3.4	<3.4	<3.4	<3.4	<6.7	<0.67	<0.67	<0.67	<0.67	<0.67
TRANS-1,2-DICHLOROETHENE	UG/L	<0.89	<0.89	<0.89	<0.89	<0.89	<4.4	<4.4	<4.4	<4.4	<4.4	<8.9	<0.89	<0.89	<0.89	<0.89	<0.89
TRANS-1,3-DICHLOROPROPENE	UG/L	<0.19	<0.19	<0.19	<0.19	<0.19	<0.95	<0.95	<0.95	<0.95	<0.95	<1.9	<0.19	<0.19	<0.19	<0.19	<0.19
TRICHLOROETHENE	UG/L	2.4	3.0	2.3	1.9	2.4	27	39	32	32	37	41	<0.48	<0.48	<0.48	<0.48	<0.48
VINYL CHLORIDE	UG/L	<0.18	<0.18	<0.18	<0.18	<0.18	<0.90	<0.90	<0.90	<0.90	<0.90	<1.8	<0.18	<0.18	<0.18	<0.18	0.22 Q
XYLENE, TOTAL	UG/L	<2.6	<2.6	<2.6	<2.6	<2.6	<13	<13	<13	<13	<13	<26	<2.6	<2.6	<2.6	<2.6	<2.6

Notes:</p

Table B1
Plume Monitoring Well Data Summary
July 2006 - August 2007
Lemberger Landfill and Lemberger Transport and Recycling Sites

PARAMETER	UNITS	RM-007XD 7/14/06	RM-007XD DUP 7/14/06	RM-007XD 9/21/06	RM-007XD 12/18/06	RM-007XD 4/24/07	RM-007XD 8/1/07	RM-008D 7/13/06	RM-008D 9/20/06	RM-008D 12/20/06	RM-008D 4/9/07	RM-008D 8/1/07	RM-008D DUP 8/1/07	RM-010D 7/24/06	RM-010D 9/12/06	RM-010D DUP 9/12/06	RM-010D 4/22/07
FIELD PARAMETERS																	
ALKALINITY, FIELD	MG/L	248	--	238	1856	2325	206	667	282	2252	1464	334	--	298	269	--	2370
CARBON DIOXIDE, FIELD	MG/L	154	--	136	84	84	94	212	178	134	168	98	--	146	190	--	152
CONDUCTANCE, SPECIFIC	UMHOS/CM	489	--	482	486	507	495	958	890	870	950	920	--	691	700	--	670
DISSOLVED OXYGEN, FIELD	MG/L	6.42	--	5.68	5.86	37.8	4.60	5.35	11.0	14.04	8.74	8.12	--	7.55	8.47	--	6.48
EH, FIELD	MV	207	--	189	293	314	307	206	290	320	352	316	--	134	257	--	333
FERROUS IRON, FIELD	MG/L	<0.2	--	0	0	0	0	<0.2	0	0	0	0	--	<1.0	0	--	0
PH, FIELD	SU	7.22	--	7.28	7.28	7.31	7.44	7.21	7.22	7.66	7.45	7.62	--	7.24	7.17	--	7.27
TEMPERATURE	DEG C	11.3	--	10.8	9.8	10.6	11.2	10.9	9.9	7.8	7.6	11.4	--	11.6	10.2	--	12.6
TURBIDITY, FIELD	NTU	5	--	0	0	0	0	57	3	2	2	0	--	52	5	--	2
INDICATOR PARAMETERS																	
ALKALINITY AS CACO ₃ , TOTAL	MG/L	260	260	280	270 Nj	280	260 N	380	370	350	400	380	380	310	300 N	300 N	320
CHLORIDE, TOTAL	MG/L	4.8 A	4.8 A	4.3 A	4.3 Nj	5.6	4.6	28 A	31	32	31	30	30	24	19 A	19 A	20
ETHANE	UG/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
ETHENE	UG/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
METHANE	UG/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
NITROGEN, NITRATE, TOTAL	MG/L	0.50	0.51	0.48	0.54 N	0.75	0.60	13 HN	10	5.6	16	8.2	8.3	4.9	4.1 Nj	4.4	4.5
NITROGEN, NITRITE, TOTAL	MG/L	<0.040	<0.040	<0.040	<0.040	<0.036	<0.036	<0.040	<0.040	<0.040 NH _j	<0.036	<0.036	<0.036	<0.040 N	<0.040 & N	<0.040 &	<0.036
PH, LABORATORY	SU	7.6 HF	7.7 HF	7.6 HF	7.3 HF	7.2 HF	7.3 HF	7.1 HF	7.8 HF	7.5 HF	7.4 HF	7.5 HF	7.5 HF	7.3 HF	7.5 HF	7.4 HF	7.3 HF
SULFATE, TOTAL	MG/L	5.0	5.1	4.5	5.4 N	7.0	6.0	43	50	62 N	40	62	61	27	25	25	27
TOTAL INORGANIC CARBON	MG/L	65	66	67	68	61	81	97	86	110	84	89	88	75	79	74	73
TOTAL ORGANIC CARBON AS NPOC	MG/L	<0.72 A	<0.72 A	<0.72	<0.72	<1.4	<1.4	<0.72 A	2.0 Q	<0.72	<1.4	<1.4	1.6 Q	1.0 Q	<0.72	1.2 Q	<1.4
METALS																	
ALUMINUM, DISSOLVED	UG/L	<40	<40	<6.3	6.4 Q	15 Q	<4.4	<40	12 QAU	<6.3	<6.3	<4.4	<4.4	<40	6.6 Q	<6.3	<6.3
ANTIMONY, DISSOLVED	UG/L	<0.40	<0.40	<0.24	<0.24	0.39 Q	0.13 Q	<0.40	0.51 Q	<0.24	<0.24	<0.10	<0.10	<0.40	0.38 Q	<0.24	<0.24
ARSENIC, DISSOLVED	UG/L	<0.40	<0.40	<0.13	<0.13	0.24 Q	0.14 Qu	0.45 Q	0.26 Q	<0.13	<0.13	0.23 Q	0.13 Qu	<0.40	0.42	0.15 Q	<0.13
BARIUM, DISSOLVED	UG/L	6.2	6.5	6.3	5.9	8.6	5.3	33	28	26	28	26	26	32	31	31	31
BERYLLIUM, DISSOLVED	UG/L	<0.40	<0.40	<0.10	<0.10	0.27 Q	<0.070	<0.40	<0.10	<0.10	<0.10	<0.070	<0.070	<0.40	<0.10	<0.10	<0.10
CADMIUM, DISSOLVED	UG/L	<0.40	<0.40	<0.14	<0.12	0.28 Q	<0.097	<0.40	<0.14	<0.12	<0.12	<0.097	<0.097	<0.40	<0.14	<0.14	<0.12
CALCIUM, DISSOLVED	UG/L	58000	59000	56000	54000	57000	53000	110000	100000	87000	110000	100000	100000	75000	77000	77000	72000
CHROMIUM, DISSOLVED	UG/L	1.4 u	2.0 u	2.1	1.9 u	1.7	0.91 Q	2.0 u	0.48 Q	0.89 Qu	0.37 Q	<0.43	<0.43	2.4 Au	1.1	0.91 Q	0.87 Q
COBALT, DISSOLVED	UG/L	1.3 Q	<0.40	0.090	0.12 Au	1.1	0.50 u	1.4	0.71	0.47 u	0.41	0.45 u	2.1	1.3 Q	0.13 Au	1.4 A	0.69
COPPER, DISSOLVED	UG/L	<2.0	<2.0	0.93	0.49 u	0.85 Qu	1.1 AXu	<2.0	1.2	1.0 u	0.97 Qu	1.7 AXu	1.8 AXu	<2.0	0.89	0.92	0.60 Qu
IRON, DISSOLVED	UG/L	130 Q	110 Q	110	87	940	150 A	250	180	180	350	320	310	110 Q	130	140	200
LEAD, DISSOLVED	UG/L	<0.40	<0.40	0.060 Qu	0.11 Q	0.30 Au	<0.044 A	<0.40	0.050 Q	<0.049	0.050 Q	<0.044 A	0.16 A	<0.40	0.050 QAU	<0.049	<0.049
MAGNESIUM, DISSOLVED	UG/L	29000	29000	33000	28000	28000	28000	54000	56000	48000	59000	54000	53000	44000	43000	42000	39000
MANGANESE, DISSOLVED	UG/L	3.01	2.11	0.54 Au	0.32 QAU	1.6 u	0.75 u	11 2	1.5 Au	1.0 u	0.75	0.82 u	1.4 u	6.4	2.4 A	4.2 A	2.4
MANGANESE, TOTAL	UG/L	1.1 Q	0.67 Q	1.6	0.25 Q	0.79 Au	0.50 Au	1.4 Q	1.2	1.5 u	0.99	1.3 Au	1.4 Au	12	6.2 A	5.6 A	1.5 A
MERCURY, DISSOLVED	UG/L	<0.072	<0.072	<0.072	<0.072	<0.013 A	<0.10	<0.072	<0.072	<0.072	<0.072	<0.10	<0.10	<0.072	<0.072	<0.072	<0.013 A
NICKEL, DISSOLVED	UG/L	2.2 Q	2.2 Q	1.6 u	1.0 Q	1.1	0.75 u	3.2 Q	1.9	1.6	2.4	1.5	1.7 u	10	1.7	2.0	1.9
POTASSIUM, DISSOLVED	UG/L	660	680	750	660	650	620	1600	1100	1100							

Table B1
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PARAMETER	UNITS	RM-007XD	RM-007XD	RM-007XD	RM-007XD	RM-007XD	RM-007XD	RM-008D	RM-008D	RM-008D	RM-008D	RM-008D	RM-010D	RM-010D	RM-010D	RM-010D	
		7/14/06	DUP 7/14/06	9/21/06	12/18/06	4/24/07	8/1/07	7/13/06	9/20/06	12/20/06	4/9/07	8/1/07	8/1/07	7/24/06	9/12/06	9/12/06	4/22/07
VOLATILE ORGANICS																	
1,1,1-TRICHLOROETHANE	UG/L	92	95	87	70	170	110	71	33	23	41	20	20	2.6 Q	3.6	3.6	3.6
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,2-TRICHLOROETHANE	UG/L	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42
1,1-DICHLOROETHANE	UG/L	51	53	47	41	88	57	36	20	13	16	8.7	8.8	<0.75	1.3 Q	1.3 Q	1.3 Q
1,1-DICHLOROETHENE	UG/L	20	21	17	15	36	21	3.6	1.6 Q	1.1 Q	1.8 Q	0.95 Q	0.68 Q	<0.57	<0.57	<0.57	<0.57
1,2-DICHLOROETHANE	UG/L	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
1,2-DICHLOROETHENE, TOTAL	UG/L	73	76	66	60	--	--	23	17	13	--	--	--	<1.4	<1.4	<1.4	--
1,2-DICHLOROPROPANE	UG/L	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46
2-BUTANONE	UG/L	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3 &	<4.3	<4.3	<4.3
2-HEXANONE	UG/L	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1
4-METHYL-2-PENTANONE	UG/L	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
ACETONE	UG/L	<2.3	<2.3	<2.3	<2.3	<2.3	<2.2	3.7 Qu	<2.3	<2.3	<2.3 *	<2.2	<2.2	<2.3	<2.3	<2.3	<2.3
BENZENE	UG/L	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41
BROMODICHLOROMETHANE	UG/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
BROMOFORM	UG/L	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94
BROMOMETHANE	UG/L	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91 &	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91
CARBON DISULFIDE	UG/L	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66
CARBON TETRACHLORIDE	UG/L	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49 &	<0.49	<0.49	<0.49	<0.49	<0.49 &	<0.49 &	<0.49	<0.49	<0.49
CHLOROBENZENE	UG/L	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41
CHLORODIBROMOMETHANE	UG/L	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81
CHLOROETHANE	UG/L	2.0 Q	1.8 Q	1.8 Q	1.5 Q	2.8 Q	1.8 Q	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97
CHLOROFORM	UG/L	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
CHLOROMETHANE	UG/L	0.32 Qu	0.88 u	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	0.56 Qu	<0.24	<0.24	<0.24
CIS-1,2-DICHLOROETHENE	UG/L	73	76	66	60	120	78	23	17	13	12	8.2	7.5	<0.83	<0.83	<0.83	<0.83
CIS-1,3-DICHLOROPROPENE	UG/L	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
ETHYLBENZENE	UG/L	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54
METHYLENE CHLORIDE	UG/L	0.47 Q	0.48 Q	<0.43	<0.43	0.59 Qu	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43
STYRENE	UG/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
TETRACHLOROETHENE	UG/L	1.8 Xu	2.3 Xu	<0.45	<0.45	<0.45	<0.45	3.2 Xu	<0.45	<0.45	<0.45	<0.45	<0.45	1.0 QXu	<0.45	<0.45	<0.45
TOLUENE	UG/L	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67
TRANS-1,2-DICHLOROETHENE	UG/L	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89
TRANS-1,3-DICHLOROPROPENE	UG/L	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
TRICHLOROETHENE	UG/L	21	21	18	17	38	24	7.2	4.5	3.3	3.7	2.0	2.0	<0.48	<0.48	<0.48	<0.48
VINYL CHLORIDE	UG/L	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
XYLENE, TOTAL	UG/L	<2.6	<2.6</td														

Table B1
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PARAMETER	UNITS	RM-011D 7/13/06	RM-011D 7/30/07	RM-101D 7/24/06	RM-101D 9/12/06	RM-101D 4/9/07	RM-101I 7/24/06	RM-101I 9/12/06	RM-101I 4/9/07	RM-102D 7/25/06	RM-102D 8/1/07	RM-103D 7/25/06	RM-103D 9/19/06	RM-103D 12/15/06	RM-103D 4/17/07	RM-103D 8/3/07
FIELD PARAMETERS																
ALKALINITY, FIELD	MG/L	380	316	162	297	1244	67	105	911	196	220	326	317	NR	2410	282
CARBON DIOXIDE, FIELD	MG/L	200	132	176	204	108	0	24	40	132	106	148	206	NR	120	98
CONDUCTANCE, SPECIFIC	UMHOS/CM	1851	1685	637	649	653	385	298	308	528	569	774	778	790	787	808
DISSOLVED OXYGEN, FIELD	MG/L	7.66	7.92	2.78	2.93	2.33	1.84	0.38	2.40	8.13	7.48	5.47	2.95	2.62	2.96	2.85
EH, FIELD	MV	173	274	163	132	278	-4	-83	69	303	270	251	272	148	319	292
FERROUS IRON, FIELD	MG/L	<0.2	0.8	<1.0	0	0	<0.2	0	0	<0.2	0	<0.2	0	NR	0	0
PH, FIELD	SU	6.97	7.51	7.31	7.18	7.19	11.29	9.07	10.17	7.32	7.43	7.09	6.92	7.03	7.05	7.23
TEMPERATURE	DEG C	12.5	11.8	10.9	9.6	9.5	13.3	9.5	7.6	10.4	9.7	22.2	10.0	8.4	9.6	11.5
TURBIDITY, FIELD	NTU	28	20	1	1	0	8	2	4	43	31	3	1	0	2	3
INDICATOR PARAMETERS																
ALKALINITY AS CACO ₃ , TOTAL	MG/L	330	360	310	290	330	94	110	67	240 N	250	370	380	--	380	--
CHLORIDE, TOTAL	MG/L	370	300	12	11 A	12	7.4	6.6 A	6.8	11	8.9	21	19 A	--	19	--
ETHANE	UG/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	--	<10	--
ETHENE	UG/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	--	<10	--
METHANE	UG/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	--	<10	--
NITROGEN, NITRATE, TOTAL	MG/L	3.5	2.8	4.3	4.2	4.2	0.35	<0.088	0.19 Q	6.8 H	8.1	4.5	3.9	--	5.6	--
NITROGEN, NITRITE, TOTAL	MG/L	<0.040	<0.036	<0.040	<0.040 &	<0.036	<0.040	<0.040 &	<0.036	<0.040 N	<0.073	<0.040	<0.040 N	--	<0.036	--
PH, LABORATORY	SU	7.3 HF	7.2 HF	7.3 HF	7.4 HF	7.2 HF	9.1 HF	8.8 HF	9.5 HF	7.3 HF	7.4 HF	7.0 HF	7.3 HF	--	7.1 HF	--
SULFATE, TOTAL	MG/L	18	25	24	21	21	38	31	39	8.9	8.2	29	27	--	30	--
TOTAL INORGANIC CARBON	MG/L	85	85	72	71	80	20	26	12	59	63	91	92	--	88	--
TOTAL ORGANIC CARBON AS NPOC	MG/L	2.8 A	1.7 Q	<0.72	1.0 Q	<1.4	<0.72	0.88 Q	<1.4	1.9 Q	<1.4	<0.72	<0.72	--	1.7 Q	--
METALS																
ALUMINUM, DISSOLVED	UG/L	<40	<4.4	<40	<6.3	15 Q	<40	<6.3	22	<40	<4.4	<40	<6.3	<6.3	<6.3	4.6 Q
ANTIMONY, DISSOLVED	UG/L	<0.40	0.11 Q	<0.40	0.56 Q	0.25 Q	<0.40	<0.24	0.42 Q	<0.40	<0.10	<0.40	<0.24	<0.24	<0.24	<0.10
ARSENIC, DISSOLVED	UG/L	<0.40	0.14 QAu	<0.40	0.45	0.38 Q	1.7	1.9	1.6	<0.40	0.10 Q	<0.40	0.17 Q	0.32 QA	<0.13	0.37
BARIUM, DISSOLVED	UG/L	33	22	26	24	25	83	85	75	8.2	8.7	61	59	55	58	58
BERYLLIUM, DISSOLVED	UG/L	<0.40	<0.070	<0.40	<0.10	0.22 Q	<0.40	<0.10	0.34	<0.40	<0.070	<0.40	<0.10	<0.10	<0.10	<0.070
CADMIUM, DISSOLVED	UG/L	<0.40	<0.097	<0.40	<0.14	0.23 Q	<0.40	<0.14	0.30 Q	<0.40	<0.097	<0.40	<0.14	<0.12	<0.12	<0.097
CALCIUM, DISSOLVED	UG/L	110000	96000	72000	74000	81000	21000	22000	23000	56000	62000	87000	88000	84000	87000	85000
CHROMIUM, DISSOLVED	UG/L	5.1 u	3.4	2.7 Au	1.6	2.2	0.66 QAu	0.64 Q	0.88 Q	0.52 QAu	1.0 Q	0.63 QAu	1.9	2.4	0.60 Q	2.7
COBALT, DISSOLVED	UG/L	2.8	2.8	0.55 Q	2.7 A	0.74	0.65 Q	1.8 A	0.90	1.0 Q	0.30 A	<0.40	0.10 Au	0.38 u	1.3	0.92
COPPER, DISSOLVED	UG/L	7.1	3.2 AXu	<2.0	0.59	0.90 Qu	<2.0	0.53	<0.59	<2.0	2.2 AXu	<2.0	0.99	1.2 u	1.1 Qu	1.8 AXu
IRON, DISSOLVED	UG/L	420	310	91 Q	130	270	<40	58	100	76 Q	210	110 Q	150	140	360	290
LEAD, DISSOLVED	UG/L	<0.40	<0.044	<0.40	0.070 QAu	0.24 u	<0.40	<0.049	0.35 u	<0.40	<0.044	<0.40	<0.049	0.10 Qu	<0.049	<0.044 A
MAGNESIUM, DISSOLVED	UG/L	50000	39000	39000	38000	40000	15000	17000	12000	32000	33000	45000	47000	46000	46000	44000
MANGANESE, DISSOLVED	UG/L	27	11	0.97 Q	4.9 A	1.3 u	3.1	6.3 A	3.1 u	1.8 Q	1.1 A	0.75 Q	0.38 QAu	0.89 Au	2.8 A	2.1
MANGANESE, TOTAL	UG/L	34	30	<0.60	1.7 A	<0.12	2.3	4.4 A	1.7	1.3 Q	5.6 A	<0.60	1.4 Au	--	1.0 A	--
MERCURY, DISSOLVED	UG/L	<0.072	<0.10	<0.072	<0.072	<0.072	<0.072	<0.072	<0.072	<0.072	<0.10 A	<0.072	<0.072	<0.072	<0.013	<0.10
NICKEL, DISSOLVED	UG/L	230	63	1.9 Q	2.0	2.4	<1.2	0.88 Q	1.2	<1.2	0.93 A	1.7 Q	1.7	1.5	2.5	1.8
POTASSIUM, DISSOLVED	UG/L	4100	3100	1300	1200	1200	6300	5800	5200	1500	1600	1500	1900	2000	1600	2000
SELENIUM, DISSOLVED	UG/L	<4.0	<0.15	<4.0	1.0 Q	0.80 Q	<4.0	<0.67	<0.67	<4.0	0.38 Q	<4.0	<0.67	<0.67	<0.67	0.62
SILVER, DISSOLVED	UG/L	<0.40	<0.11	<0.40	0.070 Q	0.12 A	<0.40	<0.034	0.30 A	<0.40	<0.11	<0.40	<0.034	<0.034 A	<0.034 A	<0.11 A
SODIUM, DISSOLVED	UG/L	210000	200000	3800	3800											

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PARAMETER	UNITS	RM-011D 7/13/06	RM-011D 7/30/07	RM-101D 7/24/06	RM-101D 9/12/06	RM-101I 4/9/07	RM-101I 7/24/06	RM-101I 9/12/06	RM-101I 4/9/07	RM-102D 7/25/06	RM-102D 8/1/07	RM-103D 7/25/06	RM-103D 9/19/06	RM-103D 12/15/06	RM-103D 4/17/07	RM-103D 8/3/07
VOLATILE ORGANICS																
1,1,1-TRICHLOROETHANE	UG/L	<0.90	<0.90	3.6	4.2	4.1	<0.90	<0.90	<0.90	<0.90	<0.90	15	11	11	15	9.2
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,2-TRICHLOROETHANE	UG/L	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42
1,1-DICHLOROETHANE	UG/L	<0.75	<0.75	2.7	3.2	2.8	1.6 Q	2.0 Q	1.5 Q	<0.75	<0.75	5.6	4.6	4.9	5.9	4.0
1,1-DICHLOROETHENE	UG/L	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	1.7 Q	1.3 Q	1.1 Q	1.4 Q	0.87 Q
1,2-DICHLOROETHANE	UG/L	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
1,2-DICHLOROETHENE, TOTAL	UG/L	<1.4	--	<1.4	<1.4	--	<1.4	<1.4	--	<1.4	--	5.0	3.7 Q	3.7 Q	--	--
1,2-DICHLOROPROPANE	UG/L	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46
2-BUTANONE	UG/L	<4.3	<4.3	<4.3 &	<4.3	<4.3	<4.3 &	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3
2-HEXANONE	UG/L	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1
4-METHYL-2-PENTANONE	UG/L	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
ACETONE	UG/L	<2.3	<2.2	<2.3	<2.3	<2.3 *	<2.3	<2.3	<2.3 *	4.2 Qu	<2.2	<2.3	<2.3	<2.3	<2.3	<2.2
BENZENE	UG/L	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41
BROMODICHLOROMETHANE	UG/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
BROMOFORM	UG/L	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94
BROMOMETHANE	UG/L	<0.91	<0.91	<0.91	<0.91	<0.91 &	<0.91	<0.91	<0.91 &	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91
CARBON DISULFIDE	UG/L	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66
CARBON TETRACHLORIDE	UG/L	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49
CHLOROBENZENE	UG/L	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41
CHLORODIBROMOMETHANE	UG/L	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81
CHLOROETHANE	UG/L	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97
CHLOROFORM	UG/L	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
CHLOROMETHANE	UG/L	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	1.2 u	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24
CIS-1,2-DICHLOROETHENE	UG/L	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	5.0	3.7	3.7	4.0	3.0
CIS-1,3-DICHLOROPROPENE	UG/L	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
ETHYLBENZENE	UG/L	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54
METHYLENE CHLORIDE	UG/L	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43
STYRENE	UG/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
TETRACHLOROETHENE	UG/L	1.2 QXu	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	1.3 QXu	<0.45	0.58 QXu	<0.45	<0.45	<0.45	<0.45
TOLUENE	UG/L	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67
TRANS-1,2-DICHLOROETHENE	UG/L	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89
TRANS-1,3-DICHLOROPROPENE	UG/L	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
TRICHLOROETHENE	UG/L	<0.48	<0.48	1.4 Q	1.5 Q	1.3 Q	<0.48	<0.48	<0.48	<0.48	<0.48	1.8	1.4 Q	1.6 Q	1.8	1.2 Q
VINYL CHLORIDE	UG/L	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
XYLENE, TOTAL	UG/L	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6

Notes:

Baseline MNA monitoring was conducted in July 2006.

Laboratory and data validation qualifier key in Table B5.

"--" = not analyzed.

Table B1
Plume Monitoring Well Data Summary
July 2006 - August 2007
Lemberger Landfill and Lemberger Transport and Recycling Sites

PARAMETER	UNITS	RM-103S 7/25/06	RM-103S 9/19/06	RM-103S 12/15/06	RM-103S 4/17/07	RM-103S 8/3/07	RM-201D 7/25/06	RM-201D 7/31/07	RM-201I 7/25/06	RM-201I 7/31/07	RM-202D 7/10/06	RM-202D 7/14/06	RM-202D 7/31/07	RM-202I 7/10/06	RM-202I 7/14/06	RM-202I 7/31/07
FIELD PARAMETERS																
ALKALINITY, FIELD	MG/L	384	332	--	2410	276	296	278	262	248	290	290	254	249	249	150
CARBON DIOXIDE, FIELD	MG/L	326	224	--	254	172	144	84	104	86	164	164	100	454	454	66
CONDUCTANCE, SPECIFIC	UMHOS/CM	719	769	774	803	802	651	670	503	524	560	560	552	549	549	541
DISSOLVED OXYGEN, FIELD	MG/L	7.91	0.34	1.09	0.82	4.65	0.32	0.14	0.59	0.52	1.14	1.14	1.49	0.36	0.36	0.12
EH, FIELD	MV	-27	-94	-64	-72	23	-40	74	-107	-21	132	132	-65	126	126	-184
FERROUS IRON, FIELD	MG/L	1.2	2	--	2.4	1.4	0.4	0.2	0.6	0.2	1.0	1.0	0.8	1	1	0
PH, FIELD	SU	7.36	6.97	7.03	7.19	7.47	7.31	7.34	7.63	7.69	7.48	7.48	7.62	7.50	7.50	7.98
TEMPERATURE	DEG C	11.3	10.0	9.4	8.7	11.0	10.9	11.2	13.4	11.6	11.2	11.2	12.6	10.6	10.6	12.2
TURBIDITY, FIELD	NTU	232	47	52	137	84	1	0	200	54	14	14	6	31	31	15
INDICATOR PARAMETERS																
ALKALINITY AS CACO ₃ , TOTAL	MG/L	330 N	330	--	350	--	330	330	280	270	310	--	270	310	--	190
CHLORIDE, TOTAL	MG/L	27	28 A	--	30	--	10	9.6	5.2	4.8	7.1	--	7.9	7.0	--	6.9
ETHANE	UG/L	<10	<10	--	<10	--	<10	<10	<10	<10	<10	--	<10	<10	--	<10
ETHENE	UG/L	<10	<10	--	<10	--	<10	<10	<10	<10	<10	--	<10	<10	--	<10
METHANE	UG/L	<10	40	--	20	--	<10	<10	<10	<10	<10	--	<10	<10	--	<10
NITROGEN, NITRATE, TOTAL	MG/L	0.19 Q	0.19 Q	--	<0.085	--	2.1	1.8	<0.088	<0.085	--	0.19 Q	0.23 Q	--	0.14 QN	<0.085
NITROGEN, NITRITE, TOTAL	MG/L	<0.040	<0.040	--	<0.036	--	<0.040 N	<0.036 N	<0.040	<0.036	--	<0.040	<0.036	--	<0.040	<0.036
PH, LABORATORY	SU	7.3 HF	7.0 HF	--	7.1 HF	--	7.2 HF	7.4 HF	7.6 HF	7.7 HF	7.7 HF	--	7.6 HF	7.9 HF	--	8.2 HF
SULFATE, TOTAL	MG/L	45	43	--	57	--	23	22	12	12	21	--	23	23	--	27
TOTAL INORGANIC CARBON	MG/L	77	82	--	81	--	81	88	67	66	67	--	66	67	--	46
TOTAL ORGANIC CARBON AS NPOC	MG/L	3.4	4.7	--	5.2	--	<0.72	<1.4	<0.72	<1.4	1.5 QA	--	<1.4	1.9 QA	--	<1.4
METALS																
ALUMINUM, DISSOLVED	UG/L	<40	<6.3	<6.3	<6.3	<4.4	<40	<4.4	<40	5.8 Q	<40	--	<4.4	<40	--	<4.4
ANTIMONY, DISSOLVED	UG/L	<0.40	<0.24	<0.24	<0.24	<0.10	<0.40	0.12 Q	<0.40	<0.10	<0.40	--	<0.10	<0.40	--	<0.10
ARSENIC, DISSOLVED	UG/L	3.6	10	11	6.0	6.0	0.62 Q	0.72	3.4	3.9	1.6	--	1.5	1.6	--	1.4
BARIUM, DISSOLVED	UG/L	33	37	38	38	36	52	47	72	71	55	--	54	60	--	52
BERYLLIUM, DISSOLVED	UG/L	<0.40	<0.10	<0.10	<0.10	<0.070	<0.40	<0.070	<0.40	<0.070	<0.40	--	<0.070	<0.40	--	<0.070
CADMUM, DISSOLVED	UG/L	<0.40	<0.14	<0.12	<0.12	<0.097	<0.40	<0.097	<0.40	<0.097	<0.40	--	<0.097	<0.40	--	<0.097
CALCIUM, DISSOLVED	UG/L	81000	81000	83000	83000	68000	69000	46000	44000	55000	--	54000	57000	--	51000	
CHROMIUM, DISSOLVED	UG/L	0.44 QAu	<0.32	<0.32	0.95 Q	<0.43	<0.40	<0.43	<0.40	<0.43	<0.40	--	<0.43	0.67 Qu	--	<0.43
COBALT, DISSOLVED	UG/L	2.2	0.66 Au	0.61 u	2.4	2.8	<0.40	0.66 A	0.45 Q	1.5 A	0.72 Q	--	0.49 A	1.9	--	0.51 A
COPPER, DISSOLVED	UG/L	<2.0	0.58	0.63 u	0.60 Qu	1.1 AXu	<2.0	1.5 AXu	<2.0	1.0 AXu	8.4	--	1.1 AXU	<2.0	--	1.0 AXu
IRON, DISSOLVED	UG/L	1200	4300	4300	4300	2700	340	410	330	440	510 Ej	--	670	810	--	610
LEAD, DISSOLVED	UG/L	<0.40	<0.049	0.060 Qu	0.050 Q	<0.044 A	<0.40	<0.044	<0.40	<0.044	<0.40	--	<0.044	<0.40	--	<0.044
MAGNESIUM, DISSOLVED	UG/L	43000	43000	45000	45000	42000	41000	41000	37000	36000	35000	--	35000	36000	--	36000
MANGANESE, DISSOLVED	UG/L	110	97	97	120	100	12	12	9.4	12	20	--	19	23	--	16
MANGANESE, TOTAL	UG/L	110	98	--	120	--	13	11	54	26	20	--	24	25	--	5.6 A
MERCURY, DISSOLVED	UG/L	<0.072	<0.072	<0.072	<0.013	<0.10	<0.072	<0.10 A	<0.072	<0.10 A	<0.072	--	<0.10 A	<0.072	--	<0.10 A
NICKEL, DISSOLVED	UG/L	2.5 Q	1.9	1.7	3.2	2.2	2.4 Q	2.3	<1.2	1.1 A	3.6 Q	--	0.95 A	7.9	--	0.94 A
POTASSIUM, DISSOLVED	UG/L	820	880	900	940	760	1700	1600	1400	1400	1200	--	1100	1200	--	1200
SELENIUM, DISSOLVED	UG/L	<4.0	<0.67	<0.67	<0.67	0.67	<4.0	0.74	<4.0	0.33 Q	<4.0	--	0.25 Q	<4.0	--	0.25 Q
SILVER, DISSOLVED	UG/L	<0.40	<0.034	0.81 A	<0.034 A	<0.11 A	<0.40	<0.11	<0.40	<0.11	<0.40	--	<0.11	<0.40	--	<0.11
SODIUM, DISSOLVED	UG/L	13000	14000	13000	14000	13000	8800	7500	13000	12000	5100	--	5000	5300	--	5500
THALLIUM, DISSOLVED	UG/L	<0.40	<0.053	<0.053	<0.053	<0.030 A	<0.40	<0.030 A	<0.40	<0.030 A	<0.40	--	<0.030 A	<0.40	--	<0.030 A

Table B1
Plume Monitoring Well Data Summary
July 2006 - August 2007
Lemberger Landfill and Lemberger Transport and Recycling Sites

PARAMETER	UNITS	RM-103S 7/25/06	RM-103S 9/19/06	RM-103S 12/15/06	RM-103S 4/17/07	RM-103S 8/3/07	RM-201D 7/25/06	RM-201D 7/31/07	RM-201I 7/25/06	RM-201I 7/31/07	RM-202D 7/10/06	RM-202D 7/14/06	RM-202D 7/31/07	RM-202I 7/10/06	RM-202I 7/14/06	RM-202I 7/31/07
VOLATILE ORGANICS																
1,1,1-TRICHLOROETHANE	UG/L	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	--	--	<0.90	<0.90	--	<0.90
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	--	--	<0.20	<0.20	--	<0.20
1,1,2-TRICHLOROETHANE	UG/L	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	--	--	<0.42	<0.42	--	<0.42
1,1-DICHLOROETHANE	UG/L	<0.75	<0.75	0.81 Q	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	--	--	<0.75	<0.75	--	<0.75
1,1-DICHLOROETHENE	UG/L	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	--	--	<0.57	<0.57	--	<0.57
1,2-DICHLOROETHANE	UG/L	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	--	--	<0.36	<0.36	--	<0.36
1,2-DICHLOROETHENE, TOTAL	UG/L	2.4 Q	5.8	9.9	--	--	<1.4	--	<1.4	--	<1.4	--	--	<1.4	--	--
1,2-DICHLOROPROPANE	UG/L	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	--	--	<0.46	<0.46	--	<0.46
2-BUTANONE	UG/L	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	--	--	<4.3	<4.3	--	<4.3
2-HEXANONE	UG/L	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	--	--	<1.1	<1.1	--	<1.1
4-METHYL-2-PENTANONE	UG/L	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	--	--	<1.2	<1.2	--	<1.2
ACETONE	UG/L	<2.3	<2.3	<2.3	<2.3	<2.2	<2.3	<2.2	<2.3	<2.2	<2.3 &	--	<2.2	<2.3 &	--	<2.2
BENZENE	UG/L	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	--	--	<0.41	<0.41	--	<0.41
BROMODICHLOROMETHANE	UG/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	--	--	<0.56	<0.56	--	<0.56
BROMOFORM	UG/L	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	--	--	<0.94	<0.94	--	<0.94
BROMOMETHANE	UG/L	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	--	--	<0.91	<0.91	--	<0.91
CARBON DISULFIDE	UG/L	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	--	--	<0.66	<0.66	--	<0.66
CARBON TETRACHLORIDE	UG/L	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	--	--	<0.49	<0.49	--	<0.49
CHLOROBENZENE	UG/L	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	--	--	<0.41	<0.41	--	<0.41
CHLORODIBROMOMETHANE	UG/L	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	--	--	<0.81	<0.81	--	<0.81
CHLOROETHANE	UG/L	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	--	--	<0.97	<0.97	--	<0.97
CHLOROFORM	UG/L	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	--	--	<0.37	<0.37	--	<0.37
CHLOROMETHANE	UG/L	<0.24	<0.24	<0.24	<0.24	<0.24	0.42 Qu	<0.24	<0.24	<0.24	--	--	<0.24	<0.24	--	<0.24
CIS-1,2-DICHLOROETHENE	UG/L	2.4 Q	5.0	8.9	7.7	6.8	<0.83	<0.83	<0.83	<0.83	--	--	<0.83	<0.83	--	<0.83
CIS-1,3-DICHLOROPROPENE	UG/L	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	--	--	<0.19	<0.19	--	<0.19
ETHYLBENZENE	UG/L	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	--	--	<0.54	<0.54	--	<0.54
METHYLENE CHLORIDE	UG/L	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	--	--	<0.43	<0.43	--	<0.43
STYRENE	UG/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	--	--	<0.86	<0.86	--	<0.86
TETRACHLOROETHENE	UG/L	1.0 Q Xu	<0.45	<0.45	<0.45	<0.45	0.59 Q Xu	<0.45	0.58 Q Xu	<0.45	<0.45	--	<0.45	<0.45	--	<0.45
TOLUENE	UG/L	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	--	--	<0.67	<0.67	--	<0.67
TRANS-1,2-DICHLOROETHENE	UG/L	<0.89	<0.89	1.0 Q	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	--	--	<0.89	<0.89	--	<0.89
TRANS-1,3-DICHLOROPROPENE	UG/L	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	--	--	<0.19	<0.19	--	<0.19
TRICHLOROETHENE	UG/L	0.65 Q	1.1 Q	1.3 Q	1.2 Q	0.79 Q	<0.48	<0.48	<0.48	<0.48	--	--	<0.48	<0.48	--	<0.48
VINYL CHLORIDE	UG/L	0.61	1.5	2.3	1.9	1.1	<0.18	<0.18	<0.18	<0.18	--	--	<0.18	<0.18	--	<0.18
XYLENE, TOTAL	UG/L	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	--	--	<2.6	<2.6	--	<2.6

Notes:

Baseline MNA monitoring was conducted in July 2006.

Laboratory and data validation qualifier key in Table B5.

-- = not analyzed.

Table B1
Plume Monitoring Well Data Summary
July 2006 - August 2007
Lemberger Landfill and Lemberger Transport and Recycling Sites

PARAMETER	UNITS	RM-204D 7/18/06	RM-204D DUP 7/18/06	RM-204D 9/20/06	RM-204D 4/22/07	RM-204D DUP 4/22/07	RM-204I 7/18/06	RM-204I 9/20/06	RM-204I 4/22/07	RM-205D 7/25/06	RM-205D 9/29/06	RM-205D DUP 9/29/06	RM-205D 4/20/07	RM-205D 7/31/07	RM-205D DUP 7/31/07
FIELD PARAMETERS															
ALKALINITY, FIELD	MG/L	304	--	288	2655	--	330	328	2590	286	1251	--	--	254	--
CARBON DIOXIDE, FIELD	MG/L	152	--	128	416	--	210	206	420	116	154	--	--	142	--
CONDUCTANCE, SPECIFIC	UMHOS/CM	280	--	693	690	--	688	677	674	654	666	--	661	671	--
DISSOLVED OXYGEN, FIELD	MG/L	0.85	--	0.25	0.67	--	0.32	0.26	3.86	0.08	0.06	--	0.72	0.29	--
EH, FIELD	MV	280	--	185	256	--	141	288	331	98	-120	--	-72	-123	--
FERROUS IRON, FIELD	MG/L	<0.2	--	0	0	--	<0.2	0	0	3.4	2.2	--	2	--	--
PH, FIELD	SU	7.34	--	7.05	7.24	--	7.33	7.09	7.36	7.57	7.42	--	7.54	7.60	--
TEMPERATURE	DEG C	11.1	--	10.1	10.2	--	10.4	10.4	10.3	10.2	9.7	--	9.4	10.8	--
TURBIDITY, FIELD	NTU	5	--	36	6	--	20	59	18	2	0	--	0	0	--
INDICATOR PARAMETERS															
ALKALINITY AS CACO ₃ , TOTAL	MG/L	360	360	340	340	350	350	330	340	320	--	--	--	320	310
CHLORIDE, TOTAL	MG/L	13 AN	13 A	12	13	14	11 A	12	13	14	--	--	--	15	15
ETHANE	UG/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	--	--	--	<10	<10
ETHENE	UG/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	--	--	--	<10	<10
METHANE	UG/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	--	--	--	<10	<10
NITROGEN, NITRATE, TOTAL	MG/L	3.9 N	3.9	3.1	3.6	3.6	2.9	3.1	3.6	<0.088	--	--	--	<0.085	<0.085
NITROGEN, NITRITE, TOTAL	MG/L	<0.040	<0.040	<0.040	<0.036	<0.036	<0.040	<0.040	<0.036	<0.040	--	--	--	<0.036	<0.036
PH, LABORATORY	SU	7.7 HF	8.0 HF	7.5 HF	7.1 HF	7.2 HF	7.4 HF	7.5 HF	7.3 HF	7.5 HF	--	--	--	7.6 HF	7.6 HF
SULFATE, TOTAL	MG/L	24 N	23	25	29 N	29	23	26	29	32	--	--	--	33	33
TOTAL INORGANIC CARBON	MG/L	83	85	81	82	75	83	81	74	76	--	--	--	74	77
TOTAL ORGANIC CARBON AS NPOC	MG/L	<0.72	<0.72	0.91 Q	<1.4	<1.4	0.81 Q	1.8 Q	<1.4	<0.72	--	--	--	<1.4	<1.4
METALS															
ALUMINUM, DISSOLVED	UG/L	<40	<40	12 QAu	<6.3	<6.3	<40	10 QAu	<6.3	<40	<6.3	<6.3	<6.3	<4.4	<4.4
ANTIMONY, DISSOLVED	UG/L	<0.40	<0.40	<0.24	<0.24	<0.24	<0.40	<0.24	<0.24	<0.40	<0.24	<0.24	<0.24	0.16 Q	<0.10
ARSENIC, DISSOLVED	UG/L	<0.40	0.46 Q	0.17 Q	0.18 Q	0.20 Q	0.45 Q	0.18 Q	0.18 Q	1.4	1.5	1.3	1.1	1.3	1.2
BARIUM, DISSOLVED	UG/L	37	39	39	40	40	39	39	39	75	71	74	70	66	66
BERYLLIUM, DISSOLVED	UG/L	<0.40	<0.40	<0.10	<0.10	<0.10	<0.40	<0.10	<0.10	<0.40	<0.10	<0.10	<0.10	0.10 Q	<0.070
CADMIUM, DISSOLVED	UG/L	<0.40	<0.40	<0.14	<0.12	<0.12	<0.40	<0.14	<0.12	<0.40	<0.14	<0.14	<0.12	<0.097	<0.097
CALCIUM, DISSOLVED	UG/L	72000	70000	80000	74000	78000	71000	79000	74000	66000	69000	70000	65000	66000	68000
CHROMIUM, DISSOLVED	UG/L	<0.40	<0.40	<0.32	0.79 Q	0.63 Q	<0.40	<0.32	<0.32	0.51 QAu	<0.32	<0.32	<0.32	<0.43	<0.43
COBALT, DISSOLVED	UG/L	1.0 Q	0.77 Q	2.9	1.7	3.2	1.1 Q	1.3	0.49	4.7	5.2	4.2	5.3	5.1	5.1 EJ
COPPER, DISSOLVED	UG/L	<2.0	<2.0	1.2	1.5 Qu	1.4 Qu	<2.0	0.67	0.87 Qu	<2.0	0.76 u	0.34 Qu	<0.59	1.9 AXu	1.4 AXu
IRON, DISSOLVED	UG/L	160	160	190	230	200	200	210	200	1100	1000	1100	1200	1200	1200
LEAD, DISSOLVED	UG/L	<0.40	<0.40	<0.049	<0.049	<0.049	<0.40	<0.049	<0.049	<0.40	<0.049	<0.049	<0.049	<0.044	<0.044
MAGNESIUM, DISSOLVED	UG/L	40000	39000	44000	38000	41000	40000	41000	39000	43000	42000	42000	38000	41000	41000
MANGANESE, DISSOLVED	UG/L	2.7 Au	1.9 QAu	8.5	5.8	9.0	3.1 A	4.6 Au	3.6	24	23	24	22	25	26
MANGANESE, TOTAL	UG/L	2.9	3.2	8.3	8.0	7.7	3.9	3.7	7.7	24	--	--	--	24	24
MERCURY, DISSOLVED	UG/L	<0.072	<0.072	<0.072	<0.013 A	<0.013 A	<0.072	<0.072	<0.013 A	<0.072	<0.072	<0.072	<0.013 A	<0.10 A	<0.10 A
NICKEL, DISSOLVED	UG/L	1.6 Q	1.6 Q	2.1	2.0	2.1	1.5 Q	1.5	1.4	1.3 Q	0.83 Qu	0.81 Qu	1.2	1.2 A	1.1 A
POTASSIUM, DISSOLVED	UG/L	1400	1400	1500	1400	1400	1500	1400	1400	1600	1600	1500	1500	1500	1500
SELENIUM, DISSOLVED	UG/L	<4.0	<4.0	<0.67	<0.67	<0.67	<4.0	<0.67	<0.67	<4.0	<0.67	<0.67	<0.67	0.29 Q	0.29 Q
SILVER, DISSOLVED	UG/L	<0.40	<0.40	<0.034	<0.034 A	<0.034 A	<0.40	<0.034	<0.034 A	<0.40	<0.034	<0.034	<0.034 A	<0.11	<0.11
SODIUM, DISSOLVED	UG/L	5300	4800	5000	4500	4500	4900	4600	4200	8000	7900	7800	7600	7300	7300
THALLIUM, DISSOLVED	UG/L	<0.40	<0.40	<0.053	<0.053 A	<0.053 A	<0.40	<0.053	<0.053 A	<0.40	<0.053	<0.053 A	0.030 QA	<0.030 A	<0.41
VANADIUM, DISSOLVED	UG/L	<1.2	<1.2	0.88	0.74 u	0.71 u	<1.2	0.91	0.74 u	<1.2	<0.10	<0.10	0.20 Q	<0.41	<0.41
ZINC, DISSOLVED	UG/L	6.9 QAU	10 QAU	5.9 Au	<0.98 A</td										

Table B1
Plume Monitoring Well Data Summary
July 2006 - August 2007
Lemberger Landfill and Lemberger Transport and Recycling Sites

PARAMETER	UNITS	RM-204D 7/18/06	RM-204D DUP 7/18/06	RM-204D 9/20/06	RM-204D 4/22/07	RM-204D DUP 4/22/07	RM-204I 7/18/06	RM-204I 9/20/06	RM-204I 4/22/07	RM-205D 7/25/06	RM-205D 9/29/06	RM-205D DUP 9/29/06	RM-205D 4/20/07	RM-205D 7/31/07	RM-205D DUP 7/31/07
VOLATILE ORGANICS															
1,1,1-TRICHLOROETHANE	UG/L	20	18	13	14	14	12	12	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,2-TRICHLOROETHANE	UG/L	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42
1,1-DICHLOROETHANE	UG/L	8.5	8.1	5.0	5.2	5.3	4.3	4.5	4.5	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75
1,1-DICHLOROETHENE	UG/L	1.2 Q	1.2 Q	0.84 Q	0.90 Q	0.89 Q	0.76 Q	0.84 Q	0.86 Q	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57
1,2-DICHLOROETHANE	UG/L	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
1,2-DICHLOROETHENE, TOTAL	UG/L	4.1 Q	4.0 Q	1.8 Q	--	--	1.4 Q	1.6 Q	--	<1.4	<1.4	<1.4	--	--	--
1,2-DICHLOROPROPANE	UG/L	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46
2-BUTANONE	UG/L	<4.3 &	<4.3 &	<4.3	<4.3	<4.3	<4.3 &	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3
2-HEXANONE	UG/L	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1
4-METHYL-2-PENTANONE	UG/L	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
ACETONE	UG/L	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	3.8 Qu	<2.3 &	<2.3 &	<2.3	<2.2	<2.2
BENZENE	UG/L	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41
BROMODICHLOROMETHANE	UG/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
BROMOFORM	UG/L	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94
BROMOMETHANE	UG/L	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91
CARBON DISULFIDE	UG/L	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66
CARBON TETRACHLORIDE	UG/L	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49
CHLOROBENZENE	UG/L	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41
CHLORODIBROMOMETHANE	UG/L	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81
CHLOROETHANE	UG/L	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97
CHLOROFORM	UG/L	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
CHLOROMETHANE	UG/L	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	2.1 u	<0.24	<0.24	<0.24	<0.24	<0.24
CIS-1,2-DICHLOROETHENE	UG/L	4.1	4.0	1.8 Q	1.8 Q	1.8 Q	1.4 Q	1.6 Q	1.3 Q	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83
CIS-1,3-DICHLOROPROPENE	UG/L	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
ETHYLBENZENE	UG/L	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54
METHYLENE CHLORIDE	UG/L	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43
STYRENE	UG/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
TETRACHLOROETHENE	UG/L	1.8 Xu	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	1.3 Q Xu	<0.45	<0.45	<0.45	<0.45	<0.45
TOLUENE	UG/L	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67
TRANS-1,2-DICHLOROETHENE	UG/L	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89
TRANS-1,3-DICHLOROPROPENE	UG/L	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
TRICHLOROETHENE	UG/L	2.5	2.4	1.5 Q	1.3 Q	1.3 Q	1.1 Q	1.3 Q	1.2 Q	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
VINYL CHLORIDE	UG/L	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
XYLENE, TOTAL	UG/L	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6

Notes:

Baseline MNA monitoring was conducted in July 2006.

Laboratory and data validation qualifier key in Table B5.

-- = not analyzed.

Table B1
Plume Monitoring Well Data Summary
July 2006 - August 2007
Lemberger Landfill and Lemberger Transport and Recycling Sites

PARAMETER	UNITS	RM-205I 7/25/06	RM-205I 9/29/06	RM-205I 4/20/07	RM-205I DUP 4/20/07	RM-205I 7/31/07	RM-206S 7/21/06	RM-206S 9/29/06	RM-206S 12/16/06	RM-206S 4/20/07	RM-206S 8/2/07	RM-207S 7/20/06	RM-207S 9/29/06	RM-207S 12/16/06	RM-207S 4/20/07	RM-207S 8/2/07
FIELD PARAMETERS																
ALKALINITY, FIELD	MG/L	292	1242	--	--	240	719	1420	--	--	600	487	1466	--	--	364
CARBON DIOXIDE, FIELD	MG/L	134	120	--	--	178	358	336	--	--	172	350	352	--	--	292
CONDUCTANCE, SPECIFIC	UMHOS/CM	609	622	618	--	607	1727	1792	1942	1444	1713	1107	1093	1178	1085	1112
DISSOLVED OXYGEN, FIELD	MG/L	0.26	0.83	0.26	--	0.08	0.67	8.07	0.72	6.12	0.70	0.18	0.14	1.36	0.68	0.10
EH, FIELD	MV	-96	-29	-89	--	-116	112	165	100	266	51	-115	-86	-74	-111	-110
FERROUS IRON, FIELD	MG/L	2.4	1.6	--	--	1.2	0.3	0	--	--	0.2	3.6	5.	--	--	2.2
PH, FIELD	SU	7.49	7.43	7.55	--	7.54	7.19	7.90	7.59	7.17	7.37	7.09	6.89	6.88	7.09	7.03
TEMPERATURE	DEG C	12.9	10.9	9.8	--	14.3	11.6	12.1	9.1	9.7	15.3	11.2	11.8	9.5	7.9	12.7
TURBIDITY, FIELD	NTU	9	6	2	--	66	40	68	8	8	20	8	12	33	16	17
INDICATOR PARAMETERS																
ALKALINITY AS CACO ₃ , TOTAL	MG/L	300	--	--	--	290	590	--	--	--	640	460	--	--	--	440
CHLORIDE, TOTAL	MG/L	11	--	--	--	9.8	4.8 A	--	--	--	10	38 A	--	--	--	27
ETHANE	UG/L	<10	--	--	--	<10	<10	--	--	--	<10	<10	--	--	--	<10
ETHENE	UG/L	<10	--	--	--	<10	<10	--	--	--	<10	<10	--	--	--	<10
METHANE	UG/L	<10	--	--	--	<10	<10	--	--	--	<10	2000	--	--	--	1000
NITROGEN, NITRATE, TOTAL	MG/L	0.43	--	--	--	<0.085	0.17 Q	--	--	--	<0.085	<0.088	--	--	--	<0.085
NITROGEN, NITRITE, TOTAL	MG/L	<0.040	--	--	--	<0.036	<0.040	--	--	--	<0.036	<0.040	--	--	--	<0.036
PH, LABORATORY	SU	7.5 HF	--	--	--	7.6 HF	7.2 HF	--	--	--	7.1 HF	7.0 HF	--	--	--	6.9 HF
SULFATE, TOTAL	MG/L	28	--	--	--	25	490	--	--	--	370	79	--	--	--	100
TOTAL INORGANIC CARBON	MG/L	73	--	--	--	93	150	--	--	--	150	120	--	--	--	64
TOTAL ORGANIC CARBON AS NPOC	MG/L	<0.72	--	--	--	<1.4	5.2	--	--	--	3.8 Q	8.4	--	--	--	6.3
METALS																
ALUMINUM, DISSOLVED	UG/L	<40	<6.3	<6.3	<6.3	<4.4	<40	<6.3	<6.3	<6.3	<4.4	<40	12 Q	<6.3	<6.3	<4.4
ANTIMONY, DISSOLVED	UG/L	<0.40	<0.24	<0.24	<0.24	<0.10	<0.40	<0.24	<0.24	<0.24	0.13 Qu	<0.40	<0.24	<0.24	<0.24	<0.10
ARSENIC, DISSOLVED	UG/L	1.5	1.5	1.7	1.7	2.0	1.1 Q	1.8	0.33 QA	0.22 Q	1.2	8.1	9.7	11	5.7	8.8
BARIUM, DISSOLVED	UG/L	67	63	63	63	61	37	35	32	22	30	95	110	110	110	98
BERYLLIUM, DISSOLVED	UG/L	<0.40	<0.10	<0.10	<0.10	<0.070	<0.40	<0.10	<0.10	<0.10	<0.070	<0.40	<0.10	<0.10	<0.10	<0.070
CADMIUM, DISSOLVED	UG/L	<0.40	<0.14	<0.12	<0.12	<0.097	<0.40	<0.14	<0.12	0.14 Q	<0.097	<0.40	<0.14	<0.12	<0.12	<0.097
CALCIUM, DISSOLVED	UG/L	61000	67000	60000	63000	60000	210000	210000	250000	180000	190000	92000	110000	130000	110000	100000
CHROMIUM, DISSOLVED	UG/L	<0.40	<0.32	<0.32	<0.32	<0.43	<0.40	<0.32	0.54 Q	0.35 Q	<0.43	0.51 Qu	0.52 Q	0.50 Q	0.52 Q	<0.43
COBALT, DISSOLVED	UG/L	<0.40	0.91 u	0.51	0.21 u	0.95 A	1.5	2.4	0.74 u	3.7	3.9	2.3	0.71 u	0.58 u	0.74	1.5 u
COPPER, DISSOLVED	UG/L	<2.0	4.2	<0.59	<0.59	1.2 AXu	2.7 Q	1.4	2.8 u	2.5 u	1.5 AXu	<2.0	0.78 u	0.44 Qu	<0.59	1.0 AXu
IRON, DISSOLVED	UG/L	520	500	680	650	550	780	640	490	580	1600	11000	14000	15000	12000	14000
LEAD, DISSOLVED	UG/L	<0.40	<0.049	<0.049	<0.049	<0.044	<0.40	<0.049	<0.049	<0.049	<0.044 A	<0.40	<0.049	<0.049	<0.049	<0.044 A
MAGNESIUM, DISSOLVED	UG/L	38000	39000	33000	35000	37000	120000	120000	140000	85000	100000	62000	62000	65000	54000	54000
MANGANESE, DISSOLVED	UG/L	17	19	19	18	20	73	120	5.3 A	31	27	130	150	200	180	180
MANGANESE, TOTAL	UG/L	18	--	--	--	48	73	--	--	--	28	140	--	--	--	190
MERCURY, DISSOLVED	UG/L	<0.072	<0.072	<0.013 A	<0.013 A	<0.10 A	<0.072	<0.072	<0.072	<0.013 A	<0.10 A	<0.072	<0.072	<0.072	<0.013 A	<0.10
NICKEL, DISSOLVED	UG/L	1.3 Q	0.92 Qu	1.4	1.2	1.2 A	9.5	4.3	3.4	4.4	3.9	5.2	3.8	6.2	3.1	3.3
POTASSIUM, DISSOLVED	UG/L	1200	1200	1200	1100	1100	1400	1700	1400	990	1400	8700	9100	10000	7900	8000
SELENIUM, DISSOLVED	UG/L	<4.0	<0.67	<0.67	<0.67	0.30 Q	<4.0	0.75 Q	<0.67	<0.67	0.41 Qu	<4.0	0.96 Q	<0.67	<0.67	<0.15
SILVER, DISSOLVED	UG/L	<0.40	<0.034	<0.034 A	<0.034 A	<0.11	<0.40	<0.034	<0.034 A	<0.034 A	<0.11 A	<0.40	<0.034	<0.034 A	<0.11 A	<0.11 A
SODIUM, DISSOLVED	UG/L	8800	9000	8500	8000	8400	12000	17000	12000	8200	12000	22000	19000	18000	13000	14000
THALLIUM, DISSOLVED	UG/L	<0.40	<0.053	<0.053 A	<0.053 A	<0.030 A	<0.40	<0.053	<0.053	<0.053 A	<0.030 A	<0.40	<0.053	<0.053	<0.053 A	<0.030 A

Table B1
Plume Monitoring Well Data Summary
July 2006 - August 2007
Lemberger Landfill and Lemberger Transport and Recycling Sites

PARAMETER	UNITS	RM-205I 7/25/06	RM-205I 9/29/06	RM-205I 4/20/07	RM-205I DUP 4/20/07	RM-205I 7/31/07	RM-206S 7/21/06	RM-206S 9/29/06	RM-206S 12/16/06	RM-206S 4/20/07	RM-206S 8/2/07	RM-207S 7/20/06	RM-207S 9/29/06	RM-207S 12/16/06	RM-207S 4/20/07	RM-207S 8/2/07
VOLATILE ORGANICS																
1,1,1-TRICHLOROETHANE	UG/L	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	
1,1,2-TRICHLOROETHANE	UG/L	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	
1,1-DICHLOROETHANE	UG/L	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	
1,1-DICHLOROETHENE	UG/L	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	
1,2-DICHLOROETHANE	UG/L	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	
1,2-DICHLOROETHENE, TOTAL	UG/L	<1.4	<1.4	--	--	--	<1.4	<1.4	<1.4	--	--	<1.4	<1.4	--	--	
1,2-DICHLOROPROPANE	UG/L	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	
2-BUTANONE	UG/L	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3 &	<4.3	<4.3	<4.3	<4.3	<4.3 &	<4.3	<4.3	<4.3	
2-HEXANONE	UG/L	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	
4-METHYL-2-PENTANONE	UG/L	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	
ACETONE	UG/L	<2.3	<2.3 &	<2.3	<2.3	<2.2	<2.3	<2.3 &	<2.3	<2.3	<2.2	2.8 Qu	<2.3 &	<2.3	<2.2	
BENZENE	UG/L	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	0.96 Q	1.0 Q	0.82 Q	1.0 Q	
BROMODICHLOROMETHANE	UG/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	
BROMOFORM	UG/L	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	
BROMOMETHANE	UG/L	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	
CARBON DISULFIDE	UG/L	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	
CARBON TETRACHLORIDE	UG/L	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49 &	<0.49	<0.49	<0.49	<0.49 &	
CHLOROBENZENE	UG/L	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	
CHLORODIBROMOMETHANE	UG/L	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	
CHLOROETHANE	UG/L	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	
CHLOROFORM	UG/L	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	
CHLORMETHANE	UG/L	<0.24	<0.24	<0.24	<0.24	<0.24	0.47 Qu	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	
CIS-1,2-DICHLOROETHENE	UG/L	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	
CIS-1,3-DICHLOROPROPENE	UG/L	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	
ETHYLBENZENE	UG/L	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	
METHYLENE CHLORIDE	UG/L	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	
STYRENE	UG/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	
TETRACHLOROETHENE	UG/L	0.75 Qu	<0.45	<0.45	<0.45	<0.45	1.2 Qu	<0.45	<0.45	<0.45	<0.45	1.5 Qu	<0.45	<0.45	<0.45	
TOLUENE	UG/L	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	
TRANS-1,2-DICHLOROETHENE	UG/L	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	
TRANS-1,3-DICHLOROPROPENE	UG/L	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	
TRICHLOROETHENE	UG/L	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	
VINYL CHLORIDE	UG/L	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	
XYLENE, TOTAL	UG/L	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	

Notes:

Baseline MNA monitoring was conducted in July 2006.

Laboratory and data validation qualifier key in Table B5.

-- = not analyzed.

Table B1
Plume Monitoring Well Data Summary
July 2006 - August 2007
Lemberger Landfill and Lemberger Transport and Recycling Sites

PARAMETER	UNITS	RM-208D 7/19/06	RM-208D 9/27/06	RM-208D DUP 9/27/06	RM-208D 12/15/06	RM-208D 4/23/07	RM-208D 7/27/07	RM-208I 7/19/06	RM-208I 9/29/06	RM-208I 12/15/06	RM-208I 4/23/07	RM-208I 8/2/07	RM-208S 7/19/06	RM-208S 9/29/06	RM-208S 12/15/06	RM-208S 4/23/07
FIELD PARAMETERS																
ALKALINITY, FIELD	MG/L	334	333	--	--	2135	292	394	1314	--	--	244	628	1378	--	--
CARBON DIOXIDE, FIELD	MG/L	160	1546	--	--	116	118	142	204	--	--	172	516	952	--	--
CONDUCTANCE, SPECIFIC	UMHOS/CM	758	779	--	779	793	758	707	721	726	722	730	1411	1794	1567	1476
DISSOLVED OXYGEN, FIELD	MG/L	1.19	1.77	--	1.60	1.63	1.59	0.27	0.90	1.16	0.44	1.81	0.35	3.50	4.25	2.8
EH, FIELD	MV	259	300	--	224	278	276	241	145	44	249	302	-112	-29	63	-206
FERROUS IRON, FIELD	MG/L	<0.2	0	--	--	0	0	<0.2	0	--	--	0	3.8	4.6	--	--
PH, FIELD	SU	7.14	7.04	--	7.07	7.11	7.12	7.27	7.19	7.27	7.31	7.38	6.80	6.86	6.97	6.85
TEMPERATURE	DEG C	13.6	10.3	--	10	10.6	11.9	10.7	9.9	7.8	9.6	11.5	13.1	13.4	7.9	7.0
TURBIDITY, FIELD	NTU	1	0	--	0	0	0	2	24	12	9	8	24	36	62	18
INDICATOR PARAMETERS																
ALKALINITY AS CACO ₃ , TOTAL	MG/L	370	330	340	--	360 N	--	360	--	--	--	340	750	--	--	--
CHLORIDE, TOTAL	MG/L	19 A	19 NA	19 A	--	22	--	13 A	--	--	--	16	31 AN	--	--	--
ETHANE	UG/L	<10	<10	<10	--	<10	--	<10	--	--	--	<10	<250	--	--	--
ETHENE	UG/L	<10	<10	<10	--	<10	--	<10	--	--	--	<10	<250	--	--	--
METHANE	UG/L	<10	<10	<10	--	<10	--	<10	--	--	--	<10	4000	--	--	--
NITROGEN, NITRATE, TOTAL	MG/L	7.2	6.4 N	6.7	--	8.2	--	3.7	--	--	--	4.9	<0.18 C	--	--	--
NITROGEN, NITRITE, TOTAL	MG/L	<0.040	<0.040 N	<0.040	--	<0.036	--	0.11 Q	--	--	--	<0.036	<0.080 C	--	--	--
PH, LABORATORY	SU	7.3 HF	7.2 HF	7.2 HF	--	7.2 HF	--	7.5 HF	--	--	--	7.3 HF	7.0 HF	--	--	--
SULFATE, TOTAL	MG/L	28	30	30	--	39 N	--	22	--	--	--	26	71	--	--	--
TOTAL INORGANIC CARBON	MG/L	88	91	91	--	89	--	84	--	--	--	100	170	--	--	--
TOTAL ORGANIC CARBON AS NPOC	MG/L	<0.72	<0.72	2.2 QX	--	<1.4	--	<0.72	--	--	--	<1.4	14	--	--	--
METALS																
ALUMINUM, DISSOLVED	UG/L	<40	<6.3	<6.3	<6.3	8.2 Q	<4.4	<40	<6.3	<6.3	14 Q	<4.4	<40	11 Q	9.4 Q	21 Q
ANTIMONY, DISSOLVED	UG/L	<0.40	<0.24	<0.24	<0.24	<0.24	<0.10	<0.40	<0.24	<0.24	0.34 Q	<0.10	<0.40	<0.24	<0.24	<0.24
ARSENIC, DISSOLVED	UG/L	<0.40	0.21 Qu	0.18 Qu	0.16 QA	0.33 Q	0.18 QAU	<0.40	0.35 Qu	0.18 QA	0.62	0.26 Q	17	19	17	14
BARIUM, DISSOLVED	UG/L	36	38	34	32	38	35	36	35	34	38	34	85	110	78	89
BERYLLIUM, DISSOLVED	UG/L	<0.40	<0.10	<0.10	<0.10	<0.10	<0.070	<0.40	<0.10	<0.10	0.20 Q	<0.070	<0.40	<0.10	<0.10	<0.10
CADMIUM, DISSOLVED	UG/L	<0.40	<0.14	<0.14	<0.12	<0.12	<0.097	<0.40	<0.14	<0.12	0.22 Q	<0.097	<0.40	<0.14	<0.12	0.21 Q
CALCIUM, DISSOLVED	UG/L	83000	89000	95000	87000	86000	96000	77000	83000	75000	79000	79000	130000	140000	130000	120000
CHROMIUM, DISSOLVED	UG/L	0.66 Qu	0.72 Qu	0.59 Qu	0.36 Q	0.68 Q	0.48 Q	0.52 Qu	<0.32	0.32 Q	0.75 Q	<0.43	2.2 u	3.2	2.2	2.3
COBALT, DISSOLVED	UG/L	3.3	0.10	0.16	0.22 u	0.43	0.53	0.94 Q	0.52 u	0.35 u	1.5	1.3 u	2.5	1.3 u	2.2 u	2.0
COPPER, DISSOLVED	UG/L	<2.0	0.57	4.2	0.85 u	1.2 Q	0.98 Au	<2.0	0.75 u	0.70 u	1.2 Q	1.4 AXu	<2.0	1.3 u	0.89 u	<0.59
IRON, DISSOLVED	UG/L	180	150	150	130	400	240	170	110 A	130	420	250 A	15000	11000	16000	16000
LEAD, DISSOLVED	UG/L	<0.40	<0.049	<0.049	<0.049	0.080 Q	<0.044	<0.40	<0.049	<0.049	0.25	<0.044 A	<0.40	<0.049	<0.049	0.060 Q
MAGNESIUM, DISSOLVED	UG/L	43000	45000	43000	47000	41000	49000	39000	44000	40000	41000	41000	68000	86000	75000	68000
MANGANESE, DISSOLVED	UG/L	7.1 A	1.0 Au	1.0 Au	1.8 A	1.2	1.5	3.9 A	2.9 Au	2.4 A	4.2	4.4	120	90	100	180
MANGANESE, TOTAL	UG/L	2.8	0.81 Au	0.95 Au	--	1.0 A	--	13	--	--	5.1	--	120	--	--	--
MERCURY, DISSOLVED	UG/L	<0.072	<0.072	<0.072	<0.072	<0.013 A	<0.10	<0.072	<0.072	<0.072	<0.013 A	<0.10	<0.072	<0.072	<0.072	<0.013 A
NICKEL, DISSOLVED	UG/L	2.2 Q	1.2	1.3	0.97 Q	2.0	1.2	1.8 Q	0.89 Qu	1.3	2.4	1.2 u	5.2	6.0	4.0	5.3
POTASSIUM, DISSOLVED	UG/L	1800	1600	1600	1600	1700	1600	1800	1700	1600	1700	1700	33000	46000	28000	24000
SELENIUM, DISSOLVED	UG/L	<4.0	0.70 Q	<0.67	<0.67	0.84 Q	0.61 Au	<4.0	0.92 Q	<0.67	1.1 Q	0.71 u	<4.0	2.0 Q	1.1 Q	1.7 Q
SILVER, DISSOLVED	UG/L	<0.40	<0.034	<0.034	<0.034 A	<0.034 A	<0.11	<0.40	<0.034	<0.034 A	0.050 QA	<0.11 A	<0.40	<0.034	<0.034 A	<0.034 A
SODIUM, DISSOLVED	UG/L	6300	6300	6000	5800	6600	5900	4800	5400	5100	5500 A	5200	23000	48000	28000	31000
THALLIUM, DISSOLVED	UG/L	<0.40	<0.053	<0.053	<0.053	0.070 Q	<0.030	<0.40	<0.053	<0.053	0.20	<0.030 A	<0.40	<0.053	<0.053	<0.053</td

Table B1
Plume Monitoring Well Data Summary
July 2006 - August 2007
Lemberger Landfill and Lemberger Transport and Recycling Sites

PARAMETER	UNITS	RM-208D 7/19/06	RM-208D 9/27/06	RM-208D DUP 9/27/06	RM-208D 12/15/06	RM-208D 4/23/07	RM-208D 7/27/07	RM-208I 7/19/06	RM-208I 9/29/06	RM-208I 12/15/06	RM-208I 4/23/07	RM-208I 8/2/07	RM-208S 7/19/06	RM-208S 9/29/06	RM-208S 12/15/06	RM-208S 4/23/07
VOLATILE ORGANICS																
1,1,1-TRICHLOROETHANE	UG/L	31	31	31	26	27	25	1.7 Q	1.5 Q	1.7 Q	1.8 Q	1.9 Q	<0.90	<0.90	<0.90	<0.90
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,2-TRICHLOROETHANE	UG/L	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42
1,1-DICHLOROETHANE	UG/L	17	14	14	13	13	13	<0.75	<0.75	0.81 Q	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75
1,1-DICHLOROETHENE	UG/L	2.2	2.2	2.2	2.6	2.3	2.1	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57
1,2-DICHLOROETHANE	UG/L	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
1,2-DICHLOROETHENE, TOTAL	UG/L	8.3	7.4	7.9	7.2	--	--	<1.4	<1.4	<1.4	--	--	<1.4	<1.4	<1.4	--
1,2-DICHLOROPROPANE	UG/L	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46
2-BUTANONE	UG/L	<4.3 &	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3 &	<4.3	<4.3	<4.3	<4.3	<4.3 &	<4.3	<4.3	<4.3
2-HEXANONE	UG/L	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1
4-METHYL-2-PENTANONE	UG/L	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
ACETONE	UG/L	3.3 Qu	<2.3	<2.3	<2.3	<2.3	<2.2	<2.3	<2.3 &	<2.3	<2.3	<2.2	5.6 Qu	<2.3 &	<2.3	<2.3
BENZENE	UG/L	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	0.98 Q	1.3 Q	0.48 Q	0.83 Q
BROMODICHLOROMETHANE	UG/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
BROMOFORM	UG/L	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94
BROMOMETHANE	UG/L	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91
CARBON DISULFIDE	UG/L	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66
CARBON TETRACHLORIDE	UG/L	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49 &	<0.49	<0.49	<0.49	<0.49
CHLOROBENZENE	UG/L	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41
CHLORODIBROMOMETHANE	UG/L	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81
CHLOROETHANE	UG/L	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97
CHLOROFORM	UG/L	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
CHLOROMETHANE	UG/L	0.43 Qu	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24
CIS-1,2-DICHLOROETHENE	UG/L	8.3	7.4	7.9	7.2	7.6	6.4	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83
CIS-1,3-DICHLOROPROPENE	UG/L	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
ETHYLBENZENE	UG/L	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54
METHYLENE CHLORIDE	UG/L	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43
STYRENE	UG/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
TETRACHLOROETHENE	UG/L	1.9 Xu	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	1.7 Xu	<0.45	<0.45	<0.45	1.4 Xu	<0.45	<0.45	<0.45
TOLUENE	UG/L	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67
TRANS-1,2-DICHLOROETHENE	UG/L	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89
TRANS-1,3-DICHLOROPROPENE	UG/L	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
TRICHLOROETHENE	UG/L	3.5	4.0	3.8	3.2	3.2	2.8	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
VINYL CHLORIDE	UG/L	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
XYLENE, TOTAL	UG/L	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6

Notes:

Baseline MNA monitoring was conducted in July 2006.

Laboratory and data validation qualifier key in Table B5.

-- = not analyzed.

Table B1
Plume Monitoring Well Data Summary
July 2006 - August 2007
Lemberger Landfill and Lemberger Transport and Recycling Sites

PARAMETER	UNITS	RM-209D 7/18/06	RM-209D 9/27/06	RM-209D 12/18/06	RM-209D 4/19/07	RM-209D 8/1/07	RM-213D 7/21/06	RM-213D 9/20/06	RM-213D 12/20/06	RM-213D 4/22/07	RM-213D 7/31/07	RM-214D 7/21/06	RM-214D 9/20/06	RM-214D 12/20/06	RM-214D 4/22/07	RM-214D 7/31/07
FIELD PARAMETERS																
ALKALINITY, FIELD	MG/L	476	404	168	3610	376	347	341	2136	3160	306	659	535	2518	4660	526
CARBON DIOXIDE, FIELD	MG/L	254	1474	2175	228	154	106	212	152	78	144	298	440	284	222	262
CONDUCTANCE, SPECIFIC	UMHOS/CM	983	937	948	1004	991	1107	1192	1183	1274	1293	1214	1238	1256	1222	1235
DISSOLVED OXYGEN, FIELD	MG/L	3.87	2.84	4.12	1.62	1.12	3.95	3.44	4.63	4.87	4.55	0.23	5.90	2.34	0.73	0.10
EH, FIELD	MV	180	254	302	329	256	239	269	332	328	311	260	232	337	186	212
FERROUS IRON, FIELD	MG/L	<0.2	0	0	0	0	<0.2	0	0	0	0	<0.2	0	1	0	0
PH, FIELD	SU	7.11	7.17	7.27	7.04	7.24	7.23	7.11	7.17	7.14	7.18	6.84	6.89	6.91	6.95	6.92
TEMPERATURE	DEG C	10.5	10.2	7.5	11.1	12.4	10.0	10.0	8.2	11.5	10.9	11.1	10.2	8.5	11.8	10.9
TURBIDITY, FIELD	NTU	1	2	1	3	2	41	87	32	6	11	110	579	193	211	22
INDICATOR PARAMETERS																
ALKALINITY AS CACO ₃ , TOTAL	MG/L	480	460	460	500	480	370 Nj	380	380	370	350	630	600	600	690	610
CHLORIDE, TOTAL	MG/L	21 A	19 A	18	20	23	61	69	68	85	84	9.3 A	9.5	10	10	9.4
ETHANE	UG/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
ETHENE	UG/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
METHANE	UG/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
NITROGEN, NITRATE, TOTAL	MG/L	2.2	1.2	1.3	1.6	2.0	29 Hhj	29	31 Hhj	42	43	0.70	0.91	0.92	0.73	0.87
NITROGEN, NITRITE, TOTAL	MG/L	<0.040	<0.040	<0.040	<0.036	<0.036 N	<0.040 N	<0.040	<0.040 Hhj	<0.036	<0.036	<0.040	<0.040	<0.040 Hhj	<0.036	0.36
PH, LABORATORY	SU	7.0 HF	7.3 HF	7.1 HF	7.1 HF	7.4 HF	7.4 HF	7.3 HF	7.2 HF	7.1 HF	7.2 HF	7.0 HF	7.2 HF	6.9 HF	6.8 HF	6.8 HF
SULFATE, TOTAL	MG/L	47	32	32	60	51 N	36 A	40	43	70	58	78	74	86	88	84
TOTAL INORGANIC CARBON	MG/L	120	120	120	120	160	89	87	100	82	90	160	150	210	150	150
TOTAL ORGANIC CARBON AS NPOC	MG/L	0.89 Q	<0.72	1.3 Q	<1.4	<1.4	2.7	8.6	2.9	3.0 Q	3.2 Q	1.4 Q	3.3	1.2 Q	1.9 Q	<1.4
METALS																
ALUMINUM, DISSOLVED	UG/L	<40	<6.3	<6.3	<6.3	<4.4	<40	<6.3	<6.3	<6.3	<4.4	<40	<6.3	<6.3	<6.3	<4.4
ANTIMONY, DISSOLVED	UG/L	<0.40	<0.24	<0.24	<0.24	<0.10	0.51 Q	0.58 Q	<0.24	<0.24	0.11 Q	<0.40	<0.24	<0.24	<0.24	<0.10
ARSENIC, DISSOLVED	UG/L	<0.40	0.20 Qu	<0.13	<0.13	<0.093	0.41 Q	<0.13	0.21 Q	<0.13	0.13 QAu	0.96 Q	0.71	1.1	0.90	0.93 Au
BARIUM, DISSOLVED	UG/L	63	62	63	76	64	110 N	110	110	75	74	160	150	150	120	120
BERYLLIUM, DISSOLVED	UG/L	<0.40	<0.10	<0.10	<0.10	<0.070	<0.40	<0.10	<0.10	<0.10	<0.070	<0.40	<0.10	<0.10	<0.10	<0.070
CADMIUM, DISSOLVED	UG/L	<0.40	<0.14	<0.12	<0.12	<0.097	<0.40	<0.14	<0.12	<0.12	<0.097	<0.40	<0.14	<0.12	<0.12	<0.097
CALCIUM, DISSOLVED	UG/L	110000	100000	110000	120000	110000	100000	110000	110000	120000	130000	140000	170000	170000	160000	160000
CHROMIUM, DISSOLVED	UG/L	1.1 Qu	0.52 Qu	0.88 Qu	1.0 Q	0.44 Q	0.48 Qu	0.44 Q	0.42 Qu	<0.32	<0.43	<0.40	<0.32	0.76 Qu	0.60 Q	0.50 Q
COBALT, DISSOLVED	UG/L	1.1 Q	1.3	0.50 Au	1.3 u	0.26 A	6.8	6.1	9.0	42	37	3.1	1.0	1.1 u	1.1	2.4
COPPER, DISSOLVED	UG/L	2.6 Q	1.4	0.94 u	1.7 Qu	2.0 AXu	2.6 Q	3.4	3.4	2.8 u	3.1 AXu	<2.0	1.3	1.5 u	1.9 Qu	5.2 AXu
IRON, DISSOLVED	UG/L	230	180	150	330	370	220	220	190	330	350	380	390	390	560	640
LEAD, DISSOLVED	UG/L	<0.40	<0.049	<0.049	0.050 Qu	<0.044	<0.40	<0.049	<0.049	<0.049	<0.044	<0.40	<0.049	0.060 Q	<0.049	<0.044
MAGNESIUM, DISSOLVED	UG/L	54000	55000	54000	54000	58000	60000	71000	63000	68000	73000	59000	69000	69000	60000	62000
MANGANESE, DISSOLVED	UG/L	2.2 Au	3.2 Au	2.1 A1	2.9	2.1 A	35	37	16	11	10	120	110	130	110	140
MANGANESE, TOTAL	UG/L	1.4 Q	1.3 Au	1.8	7.4	3.0 A	40	45	37	14	12 A	150	180	220	190	140
MERCURY, DISSOLVED	UG/L	<0.072	<0.072	<0.072	<0.013 A	<0.10 A	<0.072	<0.072	<0.013 A	<0.10	<0.072	<0.072	<0.072	<0.013 A	<0.10	
NICKEL, DISSOLVED	UG/L	2.6 Q	1.5	1.4	2.5	1.7 A	5.8	4.4	3.9	7.6	6.4	5.3	4.6	4.3	4.6	3.9
POTASSIUM, DISSOLVED	UG/L	2400	2100	2200	2500	2300	2600	2900	3100	3000	2800	5400	5000	5100	4600	4700
SELENIUM, DISSOLVED	UG/L	<4.0	1.7 Q	2.2 Q	1.4 Q	2.5	<4.0	<0.67	<0.67	0.69 Q	0.63 Au	<4.0	0.76 Qu	0.95 Q	<0.67	<0.15
SILVER, DISSOLVED	UG/L	<0.40	<0.034	<0.034 A	<0.034 A	<0.11	0.73 Q	<0.034	<0.034	<0.034 A	<0.11	<				

Table B1
Plume Monitoring Well Data Summary
July 2006 - August 2007
Lemberger Landfill and Lemberger Transport and Recycling Sites

PARAMETER	UNITS	RM-209D 7/18/06	RM-209D 9/27/06	RM-209D 12/18/06	RM-209D 4/19/07	RM-209D 8/1/07	RM-213D 7/21/06	RM-213D 9/20/06	RM-213D 12/20/06	RM-213D 4/22/07	RM-213D 7/31/07	RM-214D 7/21/06	RM-214D 9/20/06	RM-214D 12/20/06	RM-214D 4/22/07	RM-214D 7/31/07
VOLATILE ORGANICS																
1,1,1-TRICHLOROETHANE	UG/L	240	250	190	300	250	8.0	8.2	9.1	8.9	9.0	21	20	24	24	26
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.40	<0.20	<0.20	<0.50	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,2-TRICHLOROETHANE	UG/L	<0.84	<0.42	<0.42	<1.0	<2.1	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42
1,1-DICHLOROETHANE	UG/L	110	100	96	130	110	1.5 Q	1.7 Q	1.9 Q	1.8 Q	1.7 Q	10	11	11	12	11
1,1-DICHLOROETHENE	UG/L	12	12	11	17	12	<0.57	<0.57	<0.57	<0.57	<0.57	1.4 Q	1.5 Q	1.6 Q	1.8 Q	1.8 Q
1,2-DICHLOROETHANE	UG/L	<0.72	<0.36	<0.36	<0.90	<1.8	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
1,2-DICHLOROETHENE, TOTAL	UG/L	26	26	24	--	--	2.7 Q	3.4 Q	3.4 Q	--	--	43	44	41	--	--
1,2-DICHLOROPROPANE	UG/L	<0.92	<0.46	<0.46	<1.2	<2.3	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46
2-BUTANONE	UG/L	<8.6 &	<4.3	<4.3	<11	<22	<4.3 &	<4.3	<4.3	<4.3	<4.3	<4.3 &	<4.3	<4.3	<4.3	<4.3
2-HEXANONE	UG/L	<2.2	<1.1	<1.1	<2.8	<5.5	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1
4-METHYL-2-PENTANONE	UG/L	<2.4	<1.2	<1.2	<3.0	<6.0	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
ACETONE	UG/L	<4.6	<2.3	<2.3	<5.8	<11	<2.3	<2.3	<2.3	<2.3	<2.2	<2.3	<2.3	<2.3	<2.3	<2.2
BENZENE	UG/L	<0.82	<0.41	<0.41	<1.0	<2.0	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41
BROMODICHLOROMETHANE	UG/L	<1.1	<0.56	<0.56	<1.4	<2.8	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
BROMOFORM	UG/L	<1.9	<0.94	<0.94	<2.3	<4.7	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94
BROMOMETHANE	UG/L	<1.8	<0.91	<0.91	<2.3	<4.6	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91
CARBON DISULFIDE	UG/L	<1.3	<0.66	<0.66	<1.6	<3.3	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66
CARBON TETRACHLORIDE	UG/L	<0.98	<0.49	<0.49	<1.2	<2.4	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49
CHLOROBENZENE	UG/L	<0.82	<0.41	<0.41	<1.0	<2.0	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41
CHLORODIBROMOMETHANE	UG/L	<1.6	<0.81	<0.81	<2.0	<4.1	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81
CHLOROETHANE	UG/L	<1.9	<0.97	<0.97	<2.4	<4.8	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97
CHLOROFORM	UG/L	<0.74	<0.37	<0.37	<0.92	<1.8	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
CHLOROMETHANE	UG/L	<0.48	<0.24	<0.24	<0.60	<1.2	<0.24	<0.24	<0.24	<0.24	<0.24	0.47 Qu	<0.24	<0.24	<0.24	<0.24
CIS-1,2-DICHLOROETHENE	UG/L	26	26	24	29	24	2.7 Q	3.4	3.4	3.5	3.0	43	44	41	45	41
CIS-1,3-DICHLOROPROPENE	UG/L	<0.38	<0.19	<0.19	<0.48	<0.95	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
ETHYLBENZENE	UG/L	<1.1	<0.54	<0.54	<1.4	<2.7	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54
METHYLENE CHLORIDE	UG/L	<0.86	<0.43	<0.43	<1.1	<2.2	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43
STYRENE	UG/L	<1.7	<0.86	<0.86	<2.2	<4.3	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
TETRACHLOROETHENE	UG/L	3.0 QX	1.9	1.4 Q	2.1 Q	<2.2	<0.45	<0.45	<0.45	<0.45	<0.45	1.2 QXu	<0.45	<0.45	<0.45	<0.45
TOLUENE	UG/L	<1.3	<0.67	<0.67	<1.7	<3.4	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67
TRANS-1,2-DICHLOROETHENE	UG/L	<1.8	<0.89	<0.89	<2.2	<4.4	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89
TRANS-1,3-DICHLOROPROPENE	UG/L	<0.38	<0.19	<0.19	<0.48	<0.95	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
TRICHLOROETHENE	UG/L	8.2	11	8.8	13	10	1.0 Q	1.4 Q	1.3 Q	1.3 Q	1.4 Q	4.7	4.9	4.9	5.1	5.2
VINYL CHLORIDE	UG/L	<0.36	<0.18	<0.18	<0.45	<0.90	<0.18	<0.18	<0.18	<0.18	<0.18	2.1	1.5	1.9	2.1	2.0
XYLENE, TOTAL	UG/L	<5.2	<2.6	<2.6	<6.5	<13	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6

Notes:

Baseline MNA monitoring was conducted in July 2006.

Laboratory and data validation qualifier key in Table B5.

"—" = not analyzed.

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July 2006 - August 2007
Lemberger Landfill and Lemberger Transport and Recycling Sites

PARAMETER	UNITS	RM-301S 7/20/06	RM-301S 9/29/06	RM-301S 12/15/06	RM-301S 4/20/07	RM-301S 8/2/07	RM-302S 7/18/06	RM-302S 9/29/06	RM-302S 12/21/06	RM-302S 4/20/07	RM-302S 8/2/07	RM-303D 7/18/06	RM-303D 7/21/06	RM-303D 9/28/06	RM-303D 12/19/06	RM-303D 4/19/07	RM-303D 8/1/07
FIELD PARAMETERS																	
ALKALINITY, FIELD	MG/L	355	1288	--	--	358	350 +	1169	--	--	316	483	483	422	1560	3110	552
CARBON DIOXIDE, FIELD	MG/L	224	172	--	--	234	308	188	--	--	124	312	312	1748	276	284	324
CONDUCTANCE, SPECIFIC	UMHOS/CM	1084	1335	1360	1044	1110	1017	1042	1018	978	989	1067	1067	1129	1158	1164	1184
DISSOLVED OXYGEN, FIELD	MG/L	7.55	2.61	1.92	4.16	2.98	0.16	0.12	7.84	0.28	0.26	1.48	1.48	8.24	4.22	2.05	0.98
EH, FIELD	MV	210	124	125	295	191	164	125	285	150	185	179	179	258	321	325	265
FERROUS IRON, FIELD	MG/L	<0.2	0	--	--	0.1	<0.2	0.08	--	--	0	<0.2	<0.2	0	0	0	0
PH, FIELD	SU	7.73	6.97	7.00	7.29	7.22	7.11	6.87	7.30	7.09	7.11	6.84	6.84	7.35	6.66	6.70	6.71
TEMPERATURE	DEG C	11.7	12.1	10	8.8	13.1	13.6	12.9	7.1	7.9	14.7	12.3	12.3	11.0	7.8	10.6	13.2
TURBIDITY, FIELD	NTU	171	98	60	47	18	6	4	3	4	3	29	29	24	22	9	6
INDICATOR PARAMETERS																	
ALKALINITY AS CACO ₃ , TOTAL	MG/L	380	--	--	--	390 N	440	--	--	--	400	540 N	--	510	580	600	650
CHLORIDE, TOTAL	MG/L	99	--	--	--	95	67	--	--	--	70	31 N	--	26 A	25	28	27
ETHANE	UG/L	<10	--	--	--	<10	<10	--	--	--	<10	<10	--	<10	<10	<10	<10
ETHENE	UG/L	<10	--	--	--	<10	<10	--	--	--	<10	<10	--	<10	<10	<10	<10
METHANE	UG/L	<10	--	--	--	<10	77	--	--	--	<10	<10	--	<10	<10	<10	<10
NITROGEN, NITRATE, TOTAL	MG/L	0.73	--	--	--	0.83	1.1	--	--	--	1.4	--	3.5	4.3	3.3	2.7	2.9
NITROGEN, NITRITE, TOTAL	MG/L	<0.040	--	--	--	<0.036	<0.040	--	--	--	<0.036	--	0.20	<0.040	<0.040	<0.036	<0.036
PH, LABORATORY	SU	7.6 HF	--	--	--	7.0 HF	7.4 HF	--	--	--	7.0 HF	6.8 HF	--	7.3 HF	6.5 HF	6.9 HF	6.8 HF
SULFATE, TOTAL	MG/L	97	--	--	--	94	28	--	--	--	46	54 N	--	48	43	42	38
TOTAL INORGANIC CARBON	MG/L	91	--	--	--	89	100	--	--	--	96	140	--	130	170	150	220
TOTAL ORGANIC CARBON AS NPOC	MG/L	2.3 Q	--	--	--	2.2 QX	13	--	--	--	6.6	6.2	--	3.5	3.9	2.3 Q	2.1 Q
METALS																	
ALUMINUM, DISSOLVED	UG/L	<40	17 Q	<6.3	<6.3	11 Q	<40	20 Q	<6.3	<6.3	<4.4	<40	--	<6.3	<6.3	<6.3	<4.4
ANTIMONY, DISSOLVED	UG/L	<0.40	<0.24	<0.24	<0.24	0.11 Qu	<0.40	<0.24	<0.24	<0.24	0.14 Qu	<0.40	--	<0.24	<0.24	<0.24	0.15 Q
ARSENIC, DISSOLVED	UG/L	<0.40	0.36 Q	0.13 QA	<0.13	0.18 Q	0.60 Q	0.44	0.33 Q	0.18 Q	0.22 Q	<0.40	--	0.32 Q	<0.13	0.15 Q	0.12 Q
BARIUM, DISSOLVED	UG/L	47	56	54	41	42	90	100	88	81	88	67	--	73	78	79	84
BERYLLIUM, DISSOLVED	UG/L	<0.40	<0.10	<0.10	<0.10	<0.070	<0.40	<0.10	<0.10	<0.10	<0.070	<0.40	--	<0.10	<0.10	<0.10	<0.070
CADMIUM, DISSOLVED	UG/L	<0.40	<0.14	<0.12	<0.12	<0.097	<0.40	<0.14	<0.12	<0.12	<0.097	<0.40	--	<0.14	<0.12	<0.12	<0.097
CALCIUM, DISSOLVED	UG/L	120000	120000	120000	100000	110000	110000	98000	95000	96000	90000	120000	--	140000	140000	130000	140000
CHROMIUM, DISSOLVED	UG/L	2.5 u	0.53 Q	1.3	12	1.1 Q	<0.40	<0.32	0.78 Q	1.5	<0.43	<0.40	--	9.1	6.9	16	13
COBALT, DISSOLVED	UG/L	2.4	0.81 u	3.2	1.3	3.1	3.0	1.6	1.8 u	1.7	3.5	2.5	--	0.70	1.8 Au	0.91 u	2.4 A
COPPER, DISSOLVED	UG/L	3.9 Q	7.4	4.9	3.0	3.7 AXu	13	7.4	8.1	12	9.6 X	4.6 Q	--	4.9	4.8	3.0 u	3.7 AXu
IRON, DISSOLVED	UG/L	260	180 A	240	290	390	260	240	190	290	320	300	--	170 A	300	380	450
LEAD, DISSOLVED	UG/L	<0.40	<0.049	<0.049	<0.049	0.12 QA	<0.40	<0.049	<0.049	<0.049	<0.044 A	<0.40	--	<0.049	<0.049	0.060 Qu	<0.044
MAGNESIUM, DISSOLVED	UG/L	53000	54000	50000	38000	43000	47000	48000	44000	44000	43000	55000	--	69000	63000	61000	68000
MANGANESE, DISSOLVED	UG/L	9.4 A	43	35	3.9	15	100	100	99	90	77	210	--	12 A	57 2j	4.1	6.1
MANGANESE, TOTAL	UG/L	88	--	--	--	59	110	--	--	--	90	190	--	4.9	4.3 j	6.2	5.5 A
MERCURY, DISSOLVED	UG/L	<0.072	<0.072	<0.072	<0.013 A	<0.10 A	<0.072	<0.072	<0.072	<0.013 A	<0.10 A	<0.072	--	<0.072	<0.072	<0.013 A	<0.10 A
NICKEL, DISSOLVED	UG/L	19	120	240	47	70	11	8.1	8.6	9.5	9.0	37	--	16	20	23	27
POTASSIUM, DISSOLVED	UG/L	1500	1700	1600	1300	1400	12000	13000	9700	9800	13000	3300	--	3600	3400	3200	3500
SELENIUM, DISSOLVED	UG/L	<4.0	1.1 Q	<0.67	1.1 Q	1.4 u	<4.0	1.1 Q	1.4 Q	0.93 Q	1.3 u	<4.0	--	0.71 Q	<0.67	<0.67	0.15 Q
SILVER, DISSOLVED	UG/L	<0.40	<0.034	<0.034 A	<0.034 A	<0.11 A	<0.40	<0.034	<0.034	<0.034 A	<0.11 A	<0.40	--	<0.034	<0.034 A	<0.034 A	<0.11

Table B1
Plume Monitoring Well Data Summary
July 2006 - August 2007
Lemberger Landfill and Lemberger Transport and Recycling Sites

PARAMETER	UNITS	RM-301S 7/20/06	RM-301S 9/29/06	RM-301S 12/15/06	RM-301S 4/20/07	RM-301S 8/2/07	RM-302S 7/18/06	RM-302S 9/29/06	RM-302S 12/21/06	RM-302S 4/20/07	RM-302S 8/2/07	RM-303D 7/18/06	RM-303D 7/21/06	RM-303D 9/28/06	RM-303D 12/19/06	RM-303D 4/19/07	RM-303D 8/1/07
VOLATILE ORGANICS																	
1,1,1-TRICHLOROETHANE	UG/L	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	500	--	200	770	950	1200
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<1.0	--	<0.20	<1.0	<2.0	<2.0
1,1,2-TRICHLOROETHANE	UG/L	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<2.1	--	0.61 Q	<2.1	<4.2	<4.2
1,1-DICHLOROETHANE	UG/L	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	430	--	200	680	750	980
1,1-DICHLOROETHENE	UG/L	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	17	--	7.2	28	48	48
1,2-DICHLOROETHANE	UG/L	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<1.8	--	<0.36	<1.8	<3.6	<3.6
1,2-DICHLOROETHENE, TOTAL	UG/L	<1.4	<1.4	<1.4	--	--	<1.4	<1.4	<1.4	--	--	200	--	120	340	--	--
1,2-DICHLOROPROPANE	UG/L	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<2.3	--	<0.46	<2.3	<4.6	<4.6
2-BUTANONE	UG/L	<4.3 &	<4.3	<4.3	<4.3	<4.3 &	<4.3	<4.3	<4.3	<4.3	<4.3	<22 &	--	<4.3	<22	<43	<43
2-HEXANONE	UG/L	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<5.5	--	<1.1	<5.5	<11	<11
4-METHYL-2-PENTANONE	UG/L	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<6.0	--	<1.2	<6.0	<12	<12
ACETONE	UG/L	<2.3	<2.3 &	<2.3	<2.3	<2.2	5.4 Qu	<2.3 &	<2.3	<2.3	<2.2	<12	--	<2.3 &*	<12	<23	<22
BENZENE	UG/L	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<2.0	--	<0.41	<2.0	<4.1	<4.1
BROMODICHLOROMETHANE	UG/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<2.8	--	<0.56	<2.8	<5.6	<5.6
BROMOFORM	UG/L	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<4.7	--	<0.94	<4.7	<9.4	<9.4
BROMOMETHANE	UG/L	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<4.6	--	<0.91	<4.6	<9.1	<9.1
CARBON DISULFIDE	UG/L	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<3.3	--	<0.66	<3.3	<6.6	<6.6
CARBON TETRACHLORIDE	UG/L	<0.49	<0.49	<0.49	<0.49	<0.49 &	<0.49	<0.49	<0.49	<0.49	<0.49 &	<2.4	--	<0.49	<2.4	<4.9	<4.9
CHLOROBENZENE	UG/L	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<2.0	--	<0.41	<2.0	<4.1	<4.1
CHLORODIBROMOMETHANE	UG/L	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<4.1	--	<0.81	<4.1	<8.1	<8.1
CHLOROETHANE	UG/L	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	16 Q	--	<0.97	<4.8	<9.7	<9.7
CHLOROFORM	UG/L	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<1.8	--	<0.37	<1.8	<3.7	<3.7
CHLOROMETHANE	UG/L	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<1.2	--	<0.24	<1.2	<2.4	<2.4
CIS-1,2-DICHLOROETHENE	UG/L	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	200	--	110	340	330	370
CIS-1,3-DICHLOROPROPENE	UG/L	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.95	--	<0.19	<0.95	<1.9	<1.9
ETHYLBENZENE	UG/L	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<2.7	--	<0.54	<2.7	<5.4	<5.4
METHYLENE CHLORIDE	UG/L	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<2.2	--	<0.43	7.4 Bu	<4.3	<4.3
STYRENE	UG/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<4.3	--	<0.86	<4.3	<8.6	<8.6
TETRACHLOROETHENE	UG/L	1.5 QXu	<0.45	<0.45	<0.45	<0.45	1.5 QXu	<0.45	<0.45	<0.45	<0.45	2.8 QX	--	1.3 Q	4.2 Q	6.4 Q	6.4 Q
TOLUENE	UG/L	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<3.4	--	<0.67	<3.4	<6.7	<6.7
TRANS-1,2-DICHLOROETHENE	UG/L	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<4.4	--	1.5 Q	<4.4	<8.9	<8.9
TRANS-1,3-DICHLOROPROPENE	UG/L	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.95	--	<0.19	<0.95	<1.9	<1.9
TRICHLOROETHENE	UG/L	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	59	--	37	120	120	120
VINYL CHLORIDE	UG/L	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.90	--	<0.18	<0.90	<1.8	<1.8
XYLENE, TOTAL	UG/L	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<13	--	<2.6	<13	<26	<26

Notes:

Baseline MNA monitoring was conducted in July 2006.

Table B1
Plume Monitoring Well Data Summary
July 2006 - August 2007
Lemberger Landfill and Lemberger Transport and Recycling Sites

PARAMETER	UNITS	RM-304D 7/17/06	RM-304D 9/28/06	RM-304D 4/19/07	RM-305D 7/17/06	RM-305D 9/28/06	RM-305D 4/19/07	RM-306D 7/17/06	RM-306D 9/28/06	RM-306D 12/20/06	RM-306D 4/24/07	RM-306D 8/3/07	RM-306D DUP 8/3/07	RM-307D 7/17/06	RM-307D 9/28/06	RM-307D 12/20/06	RM-307D 4/24/07	RM-307D 8/3/07	RM-308D 7/14/06	RM-308D 9/28/06	RM-308D 4/19/07	
FIELD PARAMETERS																						
ALKALINITY, FIELD	MG/L	345	292	2535	340	261	2940	335	370	1966	3100	352	--	430	319	2074	2400	304	387	384	3055	
CARBON DIOXIDE, FIELD	MG/L	100	1158	112	214	1232	126	196	1312	146	146	98	--	216	1416	170	122	82	140	1718	168	
CONDUCTANCE, SPECIFIC	UMHOS/CM	627	676	647	905	825	838	715	749	720	766	760	--	880	851	860	795	846	725	815	708	
DISSOLVED OXYGEN, FIELD	MG/L	9.59	7.68	7.85	6.43	7.38	5.62	11.10	8.56	11.30	5.86	5.63	--	7.63	9.23	11.54	8.54	6.89	5.81	6.00	6.34	
EH, FIELD	MV	223	282	360	215	275	344	164	307	351	347	330	--	263	357	335	326	298	291	333	358	
FERROUS IRON, FIELD	MG/L	<0.2	0	0	<0.2	0	0	<0.2	0	0	0	0	--	<0.2	0	0	0	0	<0.2	0	0	
PH, FIELD	SU	7.15	7.07	7.38	7.06	7.42	7.50	7.06	7.08	7.47	7.07	7.26	--	6.86	7.26	7.71	7.56	7.62	6.94	6.95	7.53	
TEMPERATURE	DEG C	12.0	10.8	10.2	16.9	10.4	10	12.0	9.4	7.5	9.7	11.2	--	11.3	9.5	8.1	9.7	11.4	11.2	10.5	9.8	
TURBIDITY, FIELD	NTU	29	428	41	29	68	38	19	7	16	2	0	--	12	152	10	187	39	123	7	62	
INDICATOR PARAMETERS																						
ALKALINITY AS CACO3, TOTAL	MG/L	320	340	350	380	270	330	390	400	400	430	410	410	420 N	390	440	390	400	380	400	400 N	
CHLORIDE, TOTAL	MG/L	6.8 A	6.5 A	5.6	24 A	24 A	26	4.8 A	3.6 A	4.2	3.8	4.2	4	6.4 A	6.1 AN	4.8	6.0	6	5.6 A	4.2 A	4.2	
ETHANE	UG/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
ETHENE	UG/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
METHANE	UG/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
NITROGEN, NITRATE, TOTAL	MG/L	4.3	5.5	6.4	9.2	9.4	11 Hj	1.7	2.1	2.3	2.2	2.1	2.1	5.2	4.4	2.8	4.1	4.4	1.2	1.6	2.3	
NITROGEN, NITRITE, TOTAL	MG/L	<0.040	<0.040	<0.036	<0.040	<0.040	<0.036	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.036	
PH, LABORATORY	SU	7.1 HF	7.1 HF	7.4 HF	7.2 HF	7.4 HF	7.4 HF	7.2 HF	7.2 HF	7.5 HF	7.0 HF	7.0 HF	7.0 HF	7.3 HF	7.4 HF	7.4 HF	7.2 HF	7.0 HF	7.4 HF	7.2 HF	7.4 HF	
SULFATE, TOTAL	MG/L	9.9	11	9.3	62	83	80	10	10	11	11	10	53	60	52	57	66	21	48	18		
TOTAL INORGANIC CARBON	MG/L	79	85	79	96	73	75	96	99	100	100	100	110	100	100	85	93	98	120	91		
TOTAL ORGANIC CARBON AS NPOC	MG/L	1.8 QA	1.4 Q	<1.4	1.2 QA	<0.72	<1.4	1.6 QA	1.8 Q	0.86 Q	<1.4	<1.4	<1.4	1.2 QA	1.7 Q	2.3 Q	2.9 Q	1.7 Q	<0.72 A	<0.72	<1.4	
METALS																						
ALUMINUM, DISSOLVED	UG/L	<40	9.2 Qu	<6.3	<40	10 Qu	8.7 Q	<40	8.6 Q	<6.3	6.6 Q	<4.4	<4.4	<40	<6.3	<6.3	<6.3	<4.4	<40	<6.3	7.5 Q	
ANTIMONY, DISSOLVED	UG/L	<0.40	0.28 Q	<0.24	<0.40	0.49 Q	0.32 Q	<0.40	<0.24	<0.24	<0.24	<0.10	<0.10	<0.40	<0.24	<0.24	<0.24	<0.10	<0.40	<0.24	<0.24	
ARSENIC, DISSOLVED	UG/L	<0.40	0.35 Q	0.23 Q	0.59 Q	0.53	0.39 Q	0.45 Q	0.29 Q	0.14 Q	<0.13	<0.093	<0.093	<0.40	0.31 Q	0.25 Q	<0.13	0.21 Q	<0.40	0.19 Q	<0.13	
BARIUM, DISSOLVED	UG/L	10	9.5	9.1	5.6	4.1 A	3.7	33	30	30	31	30	30	23	23	25	25	20	11	11	9.6	
BERYLLIUM, DISSOLVED	UG/L	<0.40	0.21 Q	<0.10	<0.40	0.27 Q	0.12 Q	<0.40	<0.10	<0.10	<0.10	<0.070	<0.070	<0.40	0.12 Q	<0.10	<0.10	<0.070	<0.40	<0.10	<0.10	
CADMIUM, DISSOLVED	UG/L	<0.40	<0.14	<0.12	<0.40	<0.14	0.13 Q	<0.40	<0.14	<0.12	0.16 Q	<0.097	<0.097	<0.40	<0.14	<0.12	<0.12	<0.097	<0.40	<0.14	<0.12	
CALCIUM, DISSOLVED	UG/L	78000	81000	74000	89000	83000	73000	81000	82000	83000	84000	84000	120000	100000	100000	99000	100000	96000	110000	86000		
CHROMIUM, DISSOLVED	UG/L	0.49 Qu	2.6	1.1	6.0 u	50	22	1.8 u	1.8	2.1 u	1.4 u	1.6	1.8	1.3 Qu	2.3	0.85 Qu	1.0 Qu	1.7	0.87 Qu	0.58 Q	0.55 Q	
COBALT, DISSOLVED	UG/L	0.41 Q	1.1	1.3	3.3	4.6	1.6	2.7	2.0	3.9	2.9	1.7	2.9	1.6	0.88	1.3 u	1.5	2.0	0.87 Q	0.49	0.77 u	
COPPER, DISSOLVED	UG/L	4.9 Q	5.2	5.0 u	3.2 Q	1.9	1.6 Qu	2.4 Q	5.3	2.1	2.0 u	2.5 AXu	2.4 AXu	2.8 Q	7.2	2.1 u	2.7 u	2.5 AXu	<2.0	1.3	1.4 Qu	
IRON, DISSOLVED																						

Table B1
Plume Monitoring Well Data Summary
July 2006 - August 2007

Notes

Baseline MNA monitoring was conducted in July 2006.

Laboratory and data validation qualifier key in Table B5.

-- = not analyzed.

Table B2
Sentinel Well Data Summary
July 2006 - August 2007
Lemberger Landfill and Lemberger Transport and Recycling Sites

PARAMETER	UNITS	RM-002D 7/12/06	RM-002D 9/26/06	RM-002D DUP 9/26/06	RM-002D 12/19/06	RM-002D 4/16/07	RM-002D 7/30/07	RM-203D 7/11/06	RM-203D 9/26/06	RM-203D 12/19/06	RM-203D 4/10/07	RM-203D 7/30/07	RM-203I 7/11/06	RM-203I 9/26/06	RM-203I 12/19/06	RM-203I 4/10/07	RM-203I DUP 4/10/07	RM-203I 7/30/07
FIELD PARAMETERS																		
ALKALINITY, FIELD	MG/L	350	233	--	--	--	242	NR	277	1827	1482	270	400	329	--	1861	--	324
CARBON DIOXIDE, FIELD	MG/L	92	176	--	--	--	110	NR	182	142	124	108	190	188	--	116	--	134
CONDUCTANCE, SPECIFIC	UMHOS/CM	567	578	--	572	--	568	NR	704	708	706	700	777	799	758	792	--	751
DISSOLVED OXYGEN, FIELD	MG/L	--	0.72	--	0.76	--	0.57	NR	5.34	5.73	3.39	4.09	5.64	5.13	6.52	3.19	--	5.30
EH, FIELD	MV	149	169	--	254	--	237	NR	282	341	332	326	178	236	325	338	--	334
FERROUS IRON, FIELD	MG/L	<0.2	0	--	--	--	0	NR	0	0	0	0	0.6	0	--	0	--	0
PH, FIELD	SU	7.41	7.39	--	7.47	--	7.57	NR	7.19	7.22	7.30	7.27	7.38	7.39	7.48	7.36	--	7.54
TEMPERATURE	DEG C	11.7	10.0	--	9.1	--	11.2	NR	10	8.2	8.7	11.6	9.4	9.7	8	8.5	--	11.4
TURBIDITY, FIELD	NTU	8	3	--	3	--	0	NR	10	7	0	11	17	23	6	0	--	37
INDICATOR PARAMETERS																		
ALKALINITY AS CACO ₃ , TOTAL	MG/L	280	280	280	--	270 N	--	350 N	320	330	340	320	380	370 N	--	390	390	--
CHLORIDE, TOTAL	MG/L	8.6 A	8.7 AN	8.2 A	--	8.7	--	17	16 A	16	16	17	12	11 A	--	11	11	--
ETHANE	UG/L	<10	<10	<10	--	<10	--	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	--
ETHENE	UG/L	<10	<10	<10	--	<10	--	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	--
METHANE	UG/L	<10	<10	<10	--	<10	--	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	--
NITROGEN, NITRATE, TOTAL	MG/L	<0.088	<0.088 N	<0.088	--	0.15 Q	--	3.6 N	3.3	3.6	3.6	4.0	1.9	1.3	--	1.5	1.5	--
NITROGEN, NITRITE, TOTAL	MG/L	<0.040	<0.040	<0.040	--	<0.036	--	<0.040 N	<0.040	<0.040	<0.036	<0.036	<0.040	<0.040	<0.040	<0.036	<0.036	--
PH, LABORATORY	SU	7.8 HF	7.7 HF	7.7 HF	--	7.5 HF	--	7.3 HF	7.6 HF	7.1 HF	7.0 HF	7.2 HF	7.5 HF	7.7 HF	--	7.4 HF	7.4 HF	--
SULFATE, TOTAL	MG/L	34	32	28	--	29	--	31	27	29	28	29	66	58	--	54	53	--
TOTAL INORGANIC CARBON	MG/L	67	70	76	--	65	--	77	82	83	85	76	87	92	--	85	87	--
TOTAL ORGANIC CARBON AS NPOC	MG/L	0.91 QA	2.8	2.1 Q	--	1.5 Q	--	<0.72 A	<0.72	<0.72	<1.4	<1.4	<0.72 A	1.8 Q	--	<1.4	<1.4	--
METALS																		
ALUMINUM, DISSOLVED	UG/L	<40	11 Qu	<6.3	--	<6.3	--	<40	11 Qu	<6.3	9.7 Q	5.6 Qu	<40	6.3 Qu	9.0 Q	7.1 Q	11 Q	7.3 Qu
ANTIMONY, DISSOLVED	UG/L	<0.40	<0.24	<0.24	--	<0.24	--	0.43 Q	<0.24	<0.24	<0.24	0.11 Qu	<0.40	<0.24	<0.24	<0.24	<0.10	
ARSENIC, DISSOLVED	UG/L	0.99 Q	0.85	0.80	--	0.75	--	0.41 Q	0.26 Q	0.27 Q	0.42	0.28 QAu	0.49 Q	0.13 Qu	0.33 Q	<0.13	<0.13	0.19 QAu
BAIRUM, DISSOLVED	UG/L	64	59	59	--	68	--	97	95	96	92	90	46	46	53	51	51	48
BERYLLIUM, DISSOLVED	UG/L	<0.40	<0.10	<0.10	--	<0.10	--	<0.40	<0.10	<0.10	0.13 Q	<0.070	<0.40	<0.10	<0.10	<0.10	<0.10	<0.070
CADMUM, DISSOLVED	UG/L	<0.40	<0.14	<0.14	--	<0.12	--	<0.40	<0.14	<0.12	<0.12	<0.097	<0.40	<0.14	<0.12	<0.12	<0.097	
CALCIUM, DISSOLVED	UG/L	55000	59000	57000	--	58000	--	74000	87000	75000	78000	79000	59000	63000	65000	68000	69000	64000
CHROMIUM, DISSOLVED	UG/L	0.64 QAu	0.63 Qu	0.64 Qu	--	4.3	--	1.6 Au	1.4	1.4 u	1.1	1.1 Qu	1.1 QAu	0.32 Qu	0.82 Qu	0.67 Q	0.75 Q	0.71 Qu
COBALT, DISSOLVED	UG/L	1.8	1.4	0.79	--	1.8	--	<0.40	1.4	2.4 u	0.74	2.3 Eu	0.43 Q	1.2	0.39 u	0.34 A	0.53 A	1.5 u
COPPER, DISSOLVED	UG/L	<2.0	1.6	1.8	--	1.9 Q	--	<2.0	1.2	1.0 u	0.99 Q	2.0 AXu	2.2 Q	2.4	3.1	1.8 Q	1.8 Q	2.6 AXu
IRON, DISSOLVED	UG/L	160	110	100	--	240	--	170	130	150	210	230	170	120	160	230	230	190
LEAD, DISSOLVED	UG/L	<0.40	<0.049	<0.049	--	<0.049	--	<0.40	<0.049	0.070 Q	0.16 QA	<0.044	<0.40	<0.049	0.070 Qu	<0.049	<0.049	<0.044
MAGNESIUM, DISSOLVED	UG/L	37000	34000	34000	--	36000	--	44000	40000	39000	42000	43000	58000	56000	54000	55000	54000	54000
MANGANESE, DISSOLVED	UG/L	140	140	110	--	110	--	0.98 Q	2.6 Au	3.9	1.4 A	4.6 1	1.4 Q	0.12 Au	1.6	0.89 A	1.6 A	3.0
MANGANESE, TOTAL	UG/L	140	120	110	--	520	--	1.0 QA	2.2 Au	2.6	1.3	4.2 A	2.0 A	9.6	--	48	41	--
MERCURY, DISSOLVED	UG/L	<0.072	<0.072	<0.072	--	<0.072	--	<0.072	<0.072	<0.072	<0.10 A	<0.072	<0.072	<0.072	<0.072	<0.072	<0.10 A	
NICKEL, DISSOLVED	UG/L	3.5 Q	2.2	2.2	--	3.3	--	2.0 Q	1.5	1.3	1.4	1.6 u	2.3 Q	1.7	1.4	2.0	2.2	1.9 u
POTASSIUM, DISSOLVED	UG/L	1400	1200	1200	--	1500	--	1600	1400	1500	1400	1400 E	2200	2000	2300	2100	2100	2100

Table B2
Sentinel Well Data Summary
July 2006 - August 2007
Lemberger Landfill and Lemberger Transport and Recycling Sites

PARAMETER	UNITS	RM-002D 7/12/06	RM-002D 9/26/06	RM-002D DUP 9/26/06	RM-002D 12/19/06	RM-002D 4/16/07	RM-002D 7/30/07	RM-203D 7/11/06	RM-203D 9/26/06	RM-203D 12/19/06	RM-203D 4/10/07	RM-203D 7/30/07	RM-203I 7/11/06	RM-203I 9/26/06	RM-203I 12/19/06	RM-203I 4/10/07	RM-203I DUP 4/10/07	RM-203I 7/30/07
VOLATILE ORGANICS																		
1,1,1-TRICHLOROETHANE	UG/L	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	5.6	5.3	6.2	5.8	6.1	2.4 Q	2.1 Q	1.8 Q	2.4 Q	2.2 Q	2.2 Q
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	
1,1,2-TRICHLOROETHANE	UG/L	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	
1,1-DICHLOROETHANE	UG/L	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	2.0 Q	1.9 Q	2.5 Q	1.8 Q	2.0 Q	0.82 Q	<0.75	<0.75	<0.75	<0.75	
1,1-DICHLOROETHENE	UG/L	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	
1,2-DICHLOROETHANE	UG/L	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	
1,2-DICHLOROETHENE, TOTAL	UG/L	<1.4	<1.4	<1.4	<1.4	--	--	<1.4	<1.4	<1.4	--	--	<1.4	<1.4	<1.4	--	--	
1,2-DICHLOROPROPANE	UG/L	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	
2-BUTANONE	UG/L	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	
2-HEXANONE	UG/L	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	
4-METHYL-2-PENTANONE	UG/L	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	
ACETONE	UG/L	3.2 Qu	<2.3	<2.3	<2.3	<2.3	<2.2	<2.3	<2.3	<2.3	<2.3	<2.2	<2.3	<2.3	<2.3	<2.3	<2.2	
BENZENE	UG/L	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	
BROMODICHLOROMETHANE	UG/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	
BROMOFORM	UG/L	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	
BROMOMETHANE	UG/L	<0.91	<0.91	<0.91	<0.91 &	<0.91	<0.91	<0.91	<0.91	<0.91 &	<0.91	<0.91	<0.91	<0.91	<0.91 &	<0.91	<0.91	
CARBON DISULFIDE	UG/L	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	
CARBON TETRACHLORIDE	UG/L	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	
CHLOROBENZENE	UG/L	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	
CHLORODIBROMOMETHANE	UG/L	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	
CHLOROETHANE	UG/L	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	
CHLOROFORM	UG/L	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	
CHLOROMETHANE	UG/L	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	
CIS-1,2-DICHLOROETHENE	UG/L	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	0.98 Q	0.98 Q	1.2 Q	0.97 Q	1.2 Q	<0.83	<0.83	<0.83	<0.83	<0.83	
CIS-1,3-DICHLOROPROPENE	UG/L	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	
ETHYLBENZENE	UG/L	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	
METHYLENE CHLORIDE	UG/L	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	
STYRENE	UG/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	
TETRACHLOROETHENE	UG/L	4.0 Xu	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	2.5 Xu	<0.45	<0.45	<0.45	<0.45	2.1 Xu	<0.45	<0.45	<0.45	
TOLUENE	UG/L	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	
TRANS-1,2-DICHLOROETHENE	UG/L	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	
TRANS-1,3-DICHLOROPROPENE	UG/L	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	
TRICHLOROETHENE	UG/L	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	0.74 Q	0.63 Q	0.61 Q	0.70 Q	0.68 Q	<0.48	<0.48	<0.48	<0.48	
VINYL CHLORIDE	UG/L	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	
XYLENE, TOTAL	UG/L	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	
SEMOVOLATILE ORGANICS																		
1,2,4-TRICHLOROBENZENE	UG/L	<2.1	--	--	--	--	<2.1	<1.9	--	--	--	<1.9	<1.9	--	--	--	<2.0	
1,2-DICHLOROBENZENE	UG/L	<2.0	--	--	--	--	<2.1	<1.8	--	--	--	<1.8	<1.8	--	--	--	<2.0	
1,3-DICHLOROBENZENE	UG/L	<2.1	--	--	--	--	<2.1	<1.9	--	--	--	<1.9	<1.9	--	--	--	<2.0	
1,4-DICHLOROBENZENE	UG/L	<2.1	--	--	--	--	<2.1	<1.9	--	--	--	<1.9	<1.9	--	--	--	<2.0	
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/L	<0.68	--	--	--	--	<0.69	<0.61	--	--	--	<0.61	<0.61	--	--	--	<0.66	
2,4,5-TRICHLOROPHENOL	UG/L	<1.3	--	--	--	--	<1.3	<1.2	--	--	--	<1.2	<1.2	--	--	--	<1.3	
2,4,6-TRICHLOROPHENOL	UG/L	<0.96	--	--	--	--	<0.98	<0.87	--	--	--	<0.87	<0.87	--	--	--	<0.94	
2,4-DICHLOROPHENOL	UG/L	<0.96	--	--	--	--	<0.98	<0.87	--	--	--	<0.87	<0.87	--	--	--	<0.94	
2,4-DIMETHYLPHENOL	UG/L	<0.80	--	--	--	--	<0.82	<0.72	--	--	--	<0.72	<0.72	--	--	--	<0.78	
2,4-DINITROPHENOL	UG/L	<2.5	--	--	--	--	<2.6	<2.3	--	--	--	<2.3	<2.					

Table B2
Sentinel Well Data Summary
July 2006 - August 2007
Lemberger Landfill and Lemberger Transport and Recycling Sites

PARAMETER	UNITS	RM-002D 7/12/06	RM-002D 9/26/06	RM-002D DUP 9/26/06	RM-002D 12/19/06	RM-002D 4/16/07	RM-002D 7/30/07	RM-203D 7/11/06	RM-203D 9/26/06	RM-203D 12/19/06	RM-203D 4/10/07	RM-203D 7/30/07	RM-203I 7/11/06	RM-203I 9/26/06	RM-203I 12/19/06	RM-203I 4/10/07	RM-203I DUP 4/10/07	RM-203I 7/30/07
SEMIVOLATILE ORGANICS (cont'd)																		
2,4-DINITROTOLUENE	UG/L	<1.0	--	--	--	--	<1.0	<0.93	--	--	--	<0.93	<0.93	--	--	--	--	<1.0
2,6-DINITROTOLUENE	UG/L	<0.74	--	--	--	--	<0.75	<0.67	--	--	--	<0.67	<0.67	--	--	--	--	<0.72
2-CHLORONAPHTHALENE	UG/L	<1.4	--	--	--	--	<1.4	<1.2	--	--	--	<1.2	<1.2	--	--	--	--	<1.3
2-CHLOROPHENOL	UG/L	<0.94	--	--	--	--	<0.95	<0.85	--	--	--	<0.85	<0.85	--	--	--	--	<0.92
2-METHYLNAPHTHALENE	UG/L	<1.7	--	--	--	--	<1.7	<1.5	--	--	--	<1.5	<1.5	--	--	--	--	<1.6
2-METHYLPHENOL	UG/L	<0.81	--	--	--	--	<0.82	<0.73 *	--	--	--	<0.73	<0.73	--	--	--	--	<0.79
2-NITROANILINE	UG/L	<0.72	--	--	--	--	<0.73	<0.65	--	--	--	<0.65	<0.65	--	--	--	--	<0.70
2-NITROPHENOL	UG/L	<1.1	--	--	--	--	<1.1	<0.98	--	--	--	<0.98	<0.98	--	--	--	--	<1.1
3,3'-DICHLOROBENZIDINE	UG/L	<1.5	--	--	--	--	<1.5	<1.4	--	--	--	<1.4	<1.4	--	--	--	--	<1.5
3-NITROANILINE	UG/L	<0.91	--	--	--	--	<0.93	<0.82	--	--	--	<0.82	<0.82	--	--	--	--	<0.89
4,6-DINITRO-2-METHYLPHENOL	UG/L	<1.1	--	--	--	--	<1.1	<0.97	--	--	--	<0.97	<0.97	--	--	--	--	<1.0
4-BROMOPHENYL-PHENYLETHER	UG/L	<0.88	--	--	--	--	<0.90	<0.80	--	--	--	<0.80	<0.80	--	--	--	--	<0.86
4-CHLORO-3-METHYLPHENOL	UG/L	<1.0	--	--	--	--	<1.0	<0.90	--	--	--	<0.90	<0.90	--	--	--	--	<0.97
4-CHLOROANILINE	UG/L	<1.1	--	--	--	--	<1.1	<0.98	--	--	--	<0.98	<0.98	--	--	--	--	<1.1
4-CHLOROPHENYL-PHENYLETHER	UG/L	<1.0 &	--	--	--	--	<1.0	<0.93 &	--	--	--	<0.93	<0.93 &	--	--	--	--	<1.0
4-METHYLPHENOL	UG/L	<0.78	--	--	--	--	<0.80	<0.71	--	--	--	<0.71	<0.71	--	--	--	--	<0.76
4-NITROANILINE	UG/L	<0.76	--	--	--	--	<0.77	<0.68	--	--	--	<0.68	<0.68	--	--	--	--	<0.74
4-NITROPHENOL	UG/L	<1.0	--	--	--	--	<1.0	<0.92	--	--	--	<0.92	<0.92	--	--	--	--	<1.0
ACENAPHTHENE	UG/L	<1.1 &	--	--	--	--	<1.2	<1.0 &	--	--	--	<1.0	<1.0 &	--	--	--	--	<1.1
ACENAPHTHYLENE	UG/L	<1.1	--	--	--	--	<1.1	<1.0	--	--	--	<1.0	<1.0	--	--	--	--	<1.1
ANTHRACENE	UG/L	<0.86 &	--	--	--	--	<0.87	<0.77 &	--	--	--	<0.77	<0.77 &	--	--	--	--	<0.83
BENZO(A)ANTHRACENE	UG/L	<1.3	--	--	--	--	<1.3	<1.2	--	--	--	<1.2	<1.2	--	--	--	--	<1.3
BENZO(A)PYRENE	UG/L	<1.1	--	--	--	--	<1.1	<0.97	--	--	--	<0.97	<0.97	--	--	--	--	<1.1
BENZO(B)FLUORANTHENE	UG/L	<1.0 &	--	--	--	--	<1.0	<0.92 &	--	--	--	<0.92	<0.92 &	--	--	--	--	<0.99
BENZO(G,H,I)PERYLENE	UG/L	<2.1	--	--	--	--	<2.1	<1.9	--	--	--	<1.9	<1.9	--	--	--	--	<2.0
BENZO(K)FLUORANTHENE	UG/L	<1.2	--	--	--	--	<1.2	<1.1	--	--	--	<1.1	<1.1	--	--	--	--	<1.2
BIS(2-CHLOROETHOXY)METHANE	UG/L	<0.85	--	--	--	--	<0.86	<0.76	--	--	--	<0.76	<0.76	--	--	--	--	<0.82
BIS(2-CHLOROETHYL)ETHER	UG/L	<0.81	--	--	--	--	<0.82	<0.73 *	--	--	--	<0.73	<0.73	--	--	--	--	<0.79
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	<1.1 &	--	--	--	--	90	<1.0 &	--	--	--	78	<1.0 &	--	--	--	--	58
BUTYLBENZYLPHthalate	UG/L	<1.3 &	--	--	--	--	<1.3	<1.2 &	--	--	--	<1.2	<1.2 &	--	--	--	--	<1.2
CARBAZOLE	UG/L	<1.1	--	--	--	--	<1.1	<0.96	--	--	--	<0.96	<0.96	--	--	--	--	<1.0
CHRYSENE	UG/L	<1.7	--	--	--	--	<1.8	<1.6	--	--	--	<1.6	<1.6	--	--	--	--	<1.7
DIBENZ(A,H)ANTHRACENE	UG/L	<2.0 &	--	--	--	--	<2.0	<1.8 &N	--	--	--	<1.8	<1.8 &	--	--	--	--	<2.0
DIBENZOFURAN	UG/L	<0.88	--	--	--	--	<0.89	<0.79	--	--	--	<0.79	<0.79	--	--	--	--	<0.86
DIETHYLPHthalate	UG/L	<1.1	--	--	--	--	<1.1	<0.96	--	--	--	<0.96	<0.96	--	--	--	--	<1.0
DIMETHYLPHthalate	UG/L	<0.89	--	--	--	--	<0.90	<0.80	--	--	--	<0.80	<0.80	--	--	--	--	<0.86
DI-N-BUTYLPHthalate	UG/L	<1.0	--	--	--	--	<1.0	<0.92	--	--	--	<0.92	<0.92	--	--	--	--	<1.0
DI-N-OCTYLPHthalate	UG/L	<1.5	--	--	--	--	<1.5	<1.4	--	--	--	<1.4	<1.4	--	--	--	--	<1.5
FLUORANTHENE	UG/L	<1.4	--	--	--	--	<1.4	<1.3	--	--	--	<1.3	<1.3	--	--	--	--	<1.4
FLUORENE	UG/L	<0.92	--	--	--	--	<0.94	<0.83	--	--	--	<0.83	<0.83	--	--	--	--	<0.90
HEXACHLOROBENZENE	UG/L	<0.91	--	--	--	--	<0.93	<0.82	--	--	--	<0.82	<0.82	--	--	--	--	<0.89
HEXACHLOROBUTADIENE	UG/L	<2.9	--	--	--	--	<3.0	<2.6	--	--	--	<2.6	<2.6	--	--	--	--	<2.8
HEXACHLOROCYCLOPENTADIENE	UG/L	<1.2	--	--	--	--	<1.2	<1.1	--	--	--	<1.1	<1.1	--	--	--	--	<1.1
HEXACHLOROETHANE	UG/L	<2.3	--	--	--	--	<2.4	<2.1	--	--	--	<2.1	<2.1	--	--	--	--	<2.3
INDENO(1,2,3-CD)PYRENE	UG/L	<0.68	--	--	--	--	<0.69	<0.62	--	--	--	<0.62	<0.62	--	--	--	--	<0.67
ISOPHORONE	UG/L	<0.69	--	--	--	--	<0.70	<										

Table B2
Sentinel Well Data Summary
July 2006 - August 2007
Lemberger Landfill and Lemberger Transport and Recycling Sites

PARAMETER	UNITS	RM-002D 7/12/06	RM-002D 9/26/06	RM-002D DUP 9/26/06	RM-002D 12/19/06	RM-002D 4/16/07	RM-002D 7/30/07	RM-203D 7/11/06	RM-203D 9/26/06	RM-203D 12/19/06	RM-203D 4/10/07	RM-203D 7/30/07	RM-203I 7/11/06	RM-203I 9/26/06	RM-203I 12/19/06	RM-203I 4/10/07	RM-203I DUP 4/10/07	RM-203I 7/30/07
SEMOVOLATILE ORGANICS (cont'd)																		
NAPHTHALENE	UG/L	<1.5	--	--	--	--	<1.5	<1.3	--	--	--	<1.3	<1.3	--	--	--	<1.4	
NITROBENZENE	UG/L	<0.86	--	--	--	--	<0.87	<0.77	--	--	--	<0.77	<0.77	--	--	--	<0.84	
N-NITROSODI-N-PROPYLAMINE	UG/L	<0.67	--	--	--	--	<0.68	<0.60	--	--	--	<0.60	<0.60	--	--	--	<0.65	
N-NITROSODIPHENYLAMINE	UG/L	<4.7	--	--	--	--	<4.8	<4.2 *	--	--	--	<4.2	<4.2	--	--	--	<4.6	
PENTACHLOROPHENOL	UG/L	<1.1	--	--	--	--	<1.1	<0.97	--	--	--	<0.97	<0.97	--	--	--	<1.1	
PHENANTHRENE	UG/L	<0.76 &	--	--	--	--	<0.77	<0.68 &	--	--	--	<0.68	<0.68 &	--	--	--	<0.74	
PHENOL	UG/L	<0.62	--	--	--	--	<0.63	<0.56	--	--	--	<0.56	<0.56	--	--	--	<0.61	
PYRENE	UG/L	<1.0	--	--	--	--	<1.0	<0.90	--	--	--	<0.90	<0.90	--	--	--	<0.97	
PESTICIDES AND PCBs																		
4,4'-DDD	UG/L	<0.014	--	--	--	--	<0.027	<0.014	--	--	--	<0.021	<0.015	--	--	--	<0.021	
4,4'-DDE	UG/L	<0.012	--	--	--	--	<0.027	<0.013	--	--	--	<0.022	<0.013	--	--	--	<0.022	
4,4'-DDT	UG/L	<0.014	--	--	--	--	<0.031	<0.014	--	--	--	<0.025	<0.015	--	--	--	<0.025	
ALDRIN	UG/L	<0.0072	--	--	--	--	<0.014	<0.0075	--	--	--	<0.011	<0.0079	--	--	--	<0.011	
ALPHA-BHC	UG/L	<0.0052	--	--	--	--	<0.0072	<0.0054	--	--	--	<0.0058	<0.0057	--	--	--	<0.0058	
ALPHA-CHLORDANE	UG/L	<0.0062	--	--	--	--	<0.012	<0.0064	--	--	--	<0.0097	<0.0068	--	--	--	<0.0097	
AROCLOR-1016	UG/L	<0.26	--	--	--	--	<0.28	<0.27	--	--	--	<0.23	<0.29	--	--	--	<0.23	
AROCLOR-1221	UG/L	<0.26	--	--	--	--	<0.28	<0.27	--	--	--	<0.23	<0.29	--	--	--	<0.23	
AROCLOR-1232	UG/L	<0.26	--	--	--	--	<0.28	<0.27	--	--	--	<0.23	<0.29	--	--	--	<0.23	
AROCLOR-1242	UG/L	<0.26	--	--	--	--	<0.28	<0.27	--	--	--	<0.23	<0.29	--	--	--	<0.23	
AROCLOR-1248	UG/L	<0.26	--	--	--	--	<0.28	<0.27	--	--	--	<0.23	<0.29	--	--	--	<0.23	
AROCLOR-1254	UG/L	<0.26	--	--	--	--	<0.28	<0.27	--	--	--	<0.23	<0.29	--	--	--	<0.23	
AROCLOR-1260	UG/L	<0.26	--	--	--	--	<0.28	<0.27	--	--	--	<0.23	<0.29	--	--	--	<0.23	
BETA-BHC	UG/L	<0.0055	--	--	--	--	<0.015	<0.0057	--	--	--	<0.012	<0.0060	--	--	--	<0.012	
DELTA-BHC	UG/L	<0.0057	--	--	--	--	<0.011	<0.0059	--	--	--	<0.0088	<0.0062	--	--	--	<0.0088	
DIELDRIN	UG/L	<0.013	--	--	--	--	<0.021	<0.013	--	--	--	<0.017	<0.014	--	--	--	<0.017	
ENDOSULFAN I	UG/L	<0.0057	--	--	--	--	<0.013	<0.0059	--	--	--	<0.010	<0.0062	--	--	--	<0.010	
ENDOSULFAN II	UG/L	<0.0095	--	--	--	--	<0.027	<0.0099	--	--	--	<0.022	<0.010	--	--	--	<0.022	
ENDOSULFAN SULFATE	UG/L	<0.013	--	--	--	--	<0.019	<0.013	--	--	--	<0.016	<0.014	--	--	--	<0.016	
ENDRIN	UG/L	<0.0091	--	--	--	--	<0.028	<0.0095	--	--	--	<0.023	<0.010	--	--	--	<0.023	
ENDRIN ALDEHYDE	UG/L	<0.011	--	--	--	--	<0.022	<0.011	--	--	--	<0.018	<0.012	--	--	--	<0.018	
ENDRIN KETONE	UG/L	<0.0096	--	--	--	--	<0.019	<0.010	--	--	--	<0.015	<0.011	--	--	--	<0.015	
GAMMA-BHC (LINDANE)	UG/L	<0.0056	--	--	--	--	<0.0095	<0.0058	--	--	--	<0.0076	<0.0061	--	--	--	<0.0076	
GAMMA-CHLORDANE	UG/L	<0.0055	--	--	--	--	<0.015	<0.0057	--	--	--	<0.012	<0.0060	--	--	--	<0.012	
HEPTACHLOR	UG/L	<0.0067	--	--	--	--	<0.011	<0.0069	--	--	--	<0.0085	<0.0073	--	--	--	<0.0085	
HEPTACHLOR EPOXIDE	UG/L	<0.0061	--	--	--	--	<0.0099	<0.0063	--	--	--	<0.0080	<0.0067	--	--	--	<0.0080	
METHOXYPHOR	UG/L	<0.068	--	--	--	--	<0.10	<0.070	--	--	--	<0.084	<0.074	--	--	--	<0.084	
TOXAPHENE	UG/L	<0.50	--	--	--	--	<0.58	<0.52	--	--	--	<0.47	<0.55	--	--	--	<0.47	

Notes:

Baseline MNA monitoring was conducted in July 2006.

Laboratory and data validation qualifier key in Table B5.

-- = not analyzed.

NR = not recorded.

Table B2
Sentinel Well Data Summary
July 2006 - August 2007
Lemberger Landfill and Lemberger Transport and Recycling Sites

PARAMETER	UNITS	RM-210D 7/11/06	RM-210D DUP 7/11/06	RM-210D 9/25/06	RM-210D 12/19/06	RM-210D 4/16/07	RM-210D 7/24/07	RM-210I 7/11/06	RM-210I 9/25/06	RM-210I 12/19/06	RM-210I 4/16/07	RM-210I 7/24/07	RM-211D 7/13/06	RM-211D 9/26/06	RM-211D 12/19/06	RM-211D 4/16/07	RM-211D 7/26/07
FIELD PARAMETERS																	
ALKALINITY, FIELD	MG/L	349	--	300	2486	2710	308	320	303	--	2620	284	434	249	--	--	292
CARBON DIOXIDE, FIELD	MG/L	164	--	182	122	92	104	174	244	--	92	86	180	218	--	--	94
CONDUCTANCE, SPECIFIC	UMHOS/CM	700	--	676	710	694	701	689	696	697	709	704	703	720	726	721	706
DISSOLVED OXYGEN, FIELD	MG/L	0.98	--	1.15	0.65	1.13	0.39	5.98	6.81	8.88	8.93	5.44	0.81	1.58	1.50	1.37	1.17
EH, FIELD	MV	167	--	227	270	302	250	149	270	325	339	269	145	261	165	289	202
FERROUS IRON, FIELD	MG/L	<0.5	--	0	0	0	0	<0.5	0	--	0	0	<0.2	0	--	--	0
PH, FIELD	SU	7.19	--	7.26	7.30	7.24	7.33	7.20	7.33	7.37	7.38	7.35	6.98	7.10	7.08	7.14	7.20
TEMPERATURE	DEG C	10.1	--	10.4	8.2	11.1	11.9	9.6	10.3	8.1	10.4	11.5	11.0	10.0	9.5	10.6	11.1
TURBIDITY, FIELD	NTU	82	--	6	386	76	111	6	7	36	31	12	1	1	0	4	0
INDICATOR PARAMETERS																	
ALKALINITY AS CACO ₃ , TOTAL	MG/L	360	370	360	350 Nj	300	330	360	350	--	340	--	350	--	--	--	340
CHLORIDE, TOTAL	MG/L	14	14	13 A	18 Nj	13	13	14	13 NA	--	14	--	15 A	--	--	--	16
ETHANE	UG/L	<10	<10	<10	<10	<10	<10	<10	<10	--	<10	--	<10	--	--	--	<10
ETHENE	UG/L	<10	<10	<10	<10	<10	<10	<10	<10	--	<10	--	<10	--	--	--	<10
METHANE	UG/L	<10	<10	<10	<10	<10	<10	<10	<10	--	<10	--	<10	--	--	--	<10
NITROGEN, NITRATE, TOTAL	MG/L	3.3	3.3	3.1	3.7 Nj	3.3	3.3 H	3.3	3.1 N	--	3.6	--	4.0	--	--	--	5.0
NITROGEN, NITRITE, TOTAL	MG/L	<0.040	<0.040	<0.040	<0.040 N	<0.036 H	<0.036 NH	<0.040	<0.040 N	--	<0.036	--	<0.040	--	--	--	<0.036 N
PH, LABORATORY	SU	7.4 HF	7.5 HF	7.6 HF	7.1 HF	7.3 HF	7.1 HF	7.5 HF	7.6 HF	--	7.3 HF	--	7.2 HF	--	--	--	7.0 HF
SULFATE, TOTAL	MG/L	28	26	24	26	26	27	26	24 N	--	25	--	25	--	--	--	25
TOTAL INORGANIC CARBON	MG/L	83	83	83	100	79	110	80	84	--	89	--	83	--	--	--	110
TOTAL ORGANIC CARBON AS NPOC	MG/L	<0.72 A	<0.72 A	1.9 Q	<0.72	1.6 Q	<1.4	<0.72 A	1.6 Q	--	<1.4 N*	--	<0.72 A	--	--	--	<1.4
METALS																	
ALUMINUM, DISSOLVED	UG/L	<40	<40	27 u	9.1 Q	13 Q	<4.4	<40	<6.3	--	<6.3	--	<40	<6.3	45	<6.3	5.6 Q
ANTIMONY, DISSOLVED	UG/L	<0.40	<0.40	0.63 Qu	<0.24	0.38 Q	0.14 Q	<0.40	0.41 Qu	--	<0.24	--	<0.40	<0.24	<0.24	<0.24	0.26 Q
ARSENIC, DISSOLVED	UG/L	0.43 Q	<0.40	0.48	0.17 Q	0.49	0.26 Qu	0.48 Q	0.56	--	0.19 Q	--	0.53 Q	0.26 Qu	0.40 Q	0.25 Q	0.49 u
BARIUM, DISSOLVED	UG/L	62	64	56	62	60	61	62	59	--	66	--	40	40	42	41	39
BERYLLIUM, DISSOLVED	UG/L	<0.40	<0.40	<0.10	<0.10	0.22 Q	<0.070	<0.40	<0.10	--	<0.10	--	<0.40	<0.10	<0.10	<0.10	0.17 Q
CADMUM, DISSOLVED	UG/L	<0.40	<0.40	<0.14	<0.12	0.14 Q	<0.097	<0.40	<0.14	--	<0.12	--	<0.40	<0.14	<0.12	<0.12	0.18 Q
CALCIUM, DISSOLVED	UG/L	80000	75000	80000	76000	79000	78000	75000	72000	--	79000	--	76000	86000	81000	79000	77000
CHROMIUM, DISSOLVED	UG/L	1.5 Au	1.3 QAu	3.1	0.71 Qu	1.0 Q	0.75 Qu	4.0 Au	1.8	--	1.8	--	0.99 QAu	0.74 Qu	0.98 Q	0.82 Q	0.80 Qu
COBALT, DISSOLVED	UG/L	0.43 Q	1.1 Q	1.0	1.5 u	2.3	4.3	0.72 Q	0.13	--	0.73	--	1.2 Q	0.54	0.52	0.72	0.59
COPPER, DISSOLVED	UG/L	<2.0	<2.0	1.3	0.96 u	1.4 Q	2.4 AXu	<2.0	2.0	--	1.1 Q	--	<2.0	3.0	0.52	0.75 Q	1.7 AXu
IRON, DISSOLVED	UG/L	160	200	120	160	330	180	170	130	--	320	--	180	140	180	340	180
LEAD, DISSOLVED	UG/L	<0.40	<0.40	<0.049	<0.049	0.23	0.060 Qu	<0.40	<0.049	--	<0.049	--	0.78 Q	<0.049	<0.049	0.32	0.19 u
MAGNESIUM, DISSOLVED	UG/L	45000	43000	37000	40000	43000	41000	40000	38000	--	43000	--	45000	39000	40000	42000	38000
MANGANESE, DISSOLVED	UG/L	17	20	13	23	31	24	1.9 Q	0.68 Au	--	2.1	--	4.7	1.6 Au	3.2	1.7	0.62 A
MANGANESE, TOTAL	UG/L	32	32	25	160	150 E	84	2.2 A	1.3 Au	--	13	--	0.71 QA	--	--	--	2.1
MERCURY, DISSOLVED	UG/L	<0.072	<0.072	<0.072	<0.072	<0.072	<0.10	<0.072	<0.072 N	--	<0.072	--	<0.072	<0.072	<0.072	<0.072	<0.10
NICKEL, DISSOLVED	UG/L	3.3 Q	3.5 Q	3.0	2.3	3.9	3.0	3.1 Q	2.0	--	3.2	--	2.3 Q	1.1 Q	1.6	2.0	1.2
POTASSIUM, DISSOLVED	UG/L	1500	1400	1200	1400	1400	1300	1400	1300	--	1500	--	2900	1500	1600	1700	1500
SELENIUM, DISSOLVED	UG/L	<4.0	<4.0	0.91 Q	<0.67	<0.67	0.19 Q	<4.0	0.99 Q	--	<0.67	--	<4.0	<0.67	0.85 Q	<0.67	0.72
SILVER, DISSOLVED	UG/L	<0.40	<0.40	0.060 QAu	<0.034	0.15 A	<0.11	<0.40	<0.034	--	<0.034 A	--	<0.40	<0.034	<0.034	<0.034 A	<

Table B2
Sentinel Well Data Summary
July 2006 - August 2007
Lemberger Landfill and Lemberger Transport and Recycling Sites

PARAMETER	UNITS	RM-210D 7/11/06	RM-210D DUP 7/11/06	RM-210D 9/25/06	RM-210D 12/19/06	RM-210D 4/16/07	RM-210D 7/24/07	RM-210I 7/11/06	RM-210I 9/25/06	RM-210I 12/19/06	RM-210I 4/16/07	RM-210I 7/24/07	RM-211D 7/13/06	RM-211D 9/26/06	RM-211D 12/19/06	RM-211D 4/16/07	RM-211D 7/26/07
VOLATILE ORGANICS																	
1,1,1-TRICHLOROETHANE	UG/L	23	23	22	24	26	22	13	12	12	14	14	<0.90	2.9 Q	1.7 Q	2.2 Q	2.9 Q
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	
1,1,2-TRICHLOROETHANE	UG/L	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	
1,1-DICHLOROETHANE	UG/L	13	13	12	13	11	12	5.4	5.2	5.7	4.7	6.3	<0.75	1.2 Q	<0.75	<0.75	
1,1-DICHLOROETHENE	UG/L	2.5	2.6	2.2	2.8	2.1	2.4	1.1 Q	0.94 Q	0.85 Q	0.86 Q	1.2 Q	<0.57	<0.57	<0.57	<0.57	
1,2-DICHLOROETHANE	UG/L	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	
1,2-DICHLOROETHENE, TOTAL	UG/L	7.5	7.7	7.6	7.7	--	--	3.4 Q	3.3 Q	3.6 Q	--	--	<1.4	<1.4	<1.4	--	
1,2-DICHLOROPROPANE	UG/L	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	
2-BUTANONE	UG/L	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	
2-HEXANONE	UG/L	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	
4-METHYL-2-PENTANONE	UG/L	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	
ACETONE	UG/L	<2.3	<2.3	<2.3	<2.3	<2.3	<2.2	<2.3	<2.3	<2.3	<2.3	<2.2	9.1 u	<2.3	<2.3	<2.2	
BENZENE	UG/L	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	
BROMODICHLOROMETHANE	UG/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	
BROMOFORM	UG/L	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	
BROMOMETHANE	UG/L	<0.91	<0.91	<0.91	<0.91 &	<0.91	<0.91	<0.91	<0.91	<0.91 &	<0.91	<0.91	<0.91	<0.91	<0.91 &	<0.91	
CARBON DISULFIDE	UG/L	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	
CARBON TETRACHLORIDE	UG/L	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	
CHLOROBENZENE	UG/L	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	
CHLORODIBROMOMETHANE	UG/L	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	
CHLOROETHANE	UG/L	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	
CHLOROFORM	UG/L	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	
CHLOROMETHANE	UG/L	0.84 u	<0.24	<0.24	<0.24	<0.24	<0.24	1.7 u	<0.24	<0.24	<0.24	<0.24	0.29 Qu	<0.24	<0.24	<0.24	
CIS-1,2-DICHLOROETHENE	UG/L	7.5	7.7	7.6	7.7	6.4	6.9	3.4	3.3	3.6	2.9	3.7	<0.83	<0.83	<0.83	<0.83	
CIS-1,3-DICHLOROPROPENE	UG/L	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	
ETHYLBENZENE	UG/L	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	
METHYLENE CHLORIDE	UG/L	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	
STYRENE	UG/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	
TETRACHLOROETHENE	UG/L	2.6 Xu	3.2 Xu	<0.45	<0.45	<0.45	<0.45	3.4 Xu	<0.45	<0.45	<0.45	<0.45	4.1 Xu	<0.45	<0.45	<0.45	
TOLUENE	UG/L	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	
TRANS-1,2-DICHLOROETHENE	UG/L	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	
TRANS-1,3-DICHLOROPROPENE	UG/L	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	
TRICHLOROETHENE	UG/L	4.3	4.1	4.0	4.5	4.2	3.9	2.2	2.1	1.9	2.0	2.2	<0.48	<0.48	<0.48	0.49 Q	
VINYL CHLORIDE	UG/L	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	
XYLENE, TOTAL	UG/L	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	
SEMICVOLATILE ORGANICS																	
1,2,4-TRICHLOROBENZENE	UG/L	<2.2	<2.3	--	--	--	<1.9	<2.1	--	--	--	<4.0	<1.9	--	--	<1.9	
1,2-DICHLOROBENZENE	UG/L	<2.1	<2.3	--	--	--	<1.8	<2.1	--	--	--	<3.9	<1.8	--	--	<1.8	
1,3-DICHLOROBENZENE	UG/L	<2.1	<2.3	--	--	--	<1.9	<2.1	--	--	--	<3.9	<1.9	--	--	<1.9	
1,4-DICHLOROBENZENE	UG/L	<2.1	<2.3	--	--	--	<1.9	<2.1	--	--	--	<3.9	<1.9	--	--	<1.9	
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/L	<0.69	<0.76	--	--	--	<0.61	<0.69	--	--	--	<1.3	<0.61	--	--	<0.61	
2,4,5-TRICHLOROPHENOL	UG/L	<1.4	<1.5	--	--	--	<1.2	<1.3	--	--	--	<2.5	<1.2	--	--	<1.2	
2,4,6-TRICHLOROPHENOL	UG/L	<0.99	<1.1	--	--	--	<0.87	<0.98	--	--	--	<1.8	<0.87	--	--	<0.87	
2,4-DICHLOROPHENOL	UG/L	<0.99	<1.1	--	--	--	<0.87	<0.98	--	--	--	<1.8	<0.87	--	--	<0.87	
2,4-DIMETHYLPHENOL	UG/L	<0.82	<0.90	--	--	--	<0.72	<0.82	--	--	--	<1.5	<0.72	--	--	<0.72	
2,4-DINITROPHENOL	UG/L	<2.6	<2.8	--	--	--	<2.3	<2.6	--	--	--	<4.8	<2.3	--	--	<2.3	

Table B3
Residential Well Data Summary
July, September, December 2006
Lemberger Landfill and Lemberger Transport and Recycling Sites

PARAMETER	UNITS	GR-30 7/27/06	GR-30 9/13/06	GR-30 12/8/06	GR-30 3/16/07	GR-30 6/21/07	GR-31 7/26/06	GR-31 9/13/06	GR-31 DUP 9/13/06	GR-31 12/8/06	GR-31 3/16/07	GR-31 6/20/07	GR-33 7/27/06	GR-33 9/14/06	GR-33 12/12/06	GR-33 DUP 12/12/06	GR-33 3/22/07	GR-33 6/21/07
FIELD PARAMETERS																		
CONDUCTANCE, SPECIFIC	UMHOS/CM	606	669	655	647	650	1070	1164	--	1134	1165	1100	904	1020	1017	--	947	968
PH, FIELD	SU	7.50	7.16	7.28	7.39	7.34	7.11	6.94	--	6.53	6.66	6.76	7.37	7.07	7.22	--	7.15	7.22
TEMPERATURE	DEG C	12	11	8	8	11	12	12	--	8	8	11	12	12	8	--	8	12
TURBIDITY, FIELD	NONE	NONE	NONE	NONE	NONE	MODERATE	MODERATE	--	SLIGHT	NONE	NONE	NONE	NONE	NONE	--	NONE	NONE	
VOLATILE ORGANICS																		
1,1,1-TRICHLOROETHANE	UG/L	<0.90	<0.90 M	<0.90 M	<0.90	<0.90	<0.90 M	<0.90 M	<0.90	<0.90	<0.90	<0.90 M	<0.90 M	<0.90 M	<0.90	<0.90	<0.90	
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.20	<0.20 M	<0.20 M	<0.20	<0.20	<0.20 M	<0.20 M	<0.20 M	<0.20	<0.20	<0.20 M	<0.20 M	<0.20 M	<0.20	<0.20	<0.20	
1,1,2-TRICHLOROETHANE	UG/L	<0.42	<0.42 M	<0.42 M	<0.42	<0.42	<0.42 M	<0.42 M	<0.42 M	<0.42	<0.42	<0.42 M	<0.42 M	<0.42 M	<0.42	<0.42	<0.42	
1,1-DICHLOROETHANE	UG/L	<0.75	<0.75 M	<0.75 M	<0.75	<0.75	<0.75 M	<0.75 M	<0.75 M	<0.75	<0.75	<0.75 M	<0.75 M	<0.75 M	<0.75	<0.75	<0.75	
1,1-DICHLOROETHENE	UG/L	<0.57	<0.57 M	<0.57 M	<0.57	<0.57	<0.57 M	<0.57 M	<0.57 M	<0.57	<0.57	<0.57 M	<0.57 M	<0.57 M	<0.57	<0.57	<0.57	
1,2-DICHLOROETHANE	UG/L	<0.36	<0.36 M	<0.36 M	<0.36	<0.36	<0.36 M	<0.36 M	<0.36 M	<0.36	<0.36	<0.36 M	<0.36 M	<0.36 M	<0.36	<0.36	<0.36	
1,2-DICHLOROETHENE, TOTAL	UG/L	<1.4	<1.4 M	<1.4 M	--	--	<1.4	<1.4 M	<1.4 M	<1.4 M	--	--	<1.4	<1.4 M	<1.4 M	<1.4 M	--	--
1,2-DICHLOROPROPANE	UG/L	<0.46	<0.46 M	<0.46 M	<0.46	<0.46	<0.46 M	<0.46 M	<0.46 M	<0.46	<0.46	<0.46 M	<0.46 M	<0.46 M	<0.46	<0.46	<0.46	
2-BUTANONE	UG/L	<4.3	<4.3 M	<4.3 M	<4.3	<4.3	<4.3 M	<4.3 M	<4.3 M	<4.3	<4.3	<4.3 M	<4.3 M	<4.3 M	<4.3	<4.3	<4.3	
2-HEXANONE	UG/L	<1.1	<1.1 M	<1.1 M	<1.1	<1.1	<1.1 M	<1.1 M	<1.1 M	<1.1	<1.1	<1.1 M	<1.1 M	<1.1 M	<1.1	<1.1	<1.1	
4-METHYL-2-PENTANONE	UG/L	<1.2	<1.2 M	<1.2 M	<1.2	<1.2	<1.2 M	<1.2 M	<1.2 M	<1.2	<1.2	<1.2 M	<1.2 M	<1.2 M	<1.2	<1.2	<1.2	
ACETONE	UG/L	4.5 Qu	<2.3 M	<2.3 M	<2.3	<2.3	<2.3 M	<2.3 M	<2.3 M	<2.3	<2.3	<2.3 M	<2.3 M	<2.3 M	<2.3	<2.3	<2.3	
BENZENE	UG/L	<0.41	<0.41 M	<0.41 M	<0.41	<0.41	<0.41 M	<0.41 M	<0.41 M	<0.41	<0.41	<0.41 M	<0.41 M	<0.41 M	<0.41	<0.41	<0.41	
BROMODICHLOROMETHANE	UG/L	<0.56	<0.56 M	<0.56 M	<0.56	<0.56	<0.56 M	<0.56 M	<0.56 M	<0.56	<0.56	<0.56 M	<0.56 M	<0.56 M	<0.56	<0.56	<0.56	
BROMOFORM	UG/L	<0.94	<0.94 M	<0.94 M	<0.94	<0.94	<0.94 M	<0.94 M	<0.94 M	<0.94	<0.94	<0.94 M	<0.94 M	<0.94 M	<0.94	<0.94	<0.94	
BROMOMETHANE	UG/L	<0.91	<0.91 M	<0.91 M	<0.91	<0.91 &	<0.91	<0.91 M	<0.91 M	<0.91 M	<0.91	<0.91 &	<0.91	<0.91 M	<0.91 M	<0.91	<0.91 &	
CARBON DISULFIDE	UG/L	<0.66	<0.66 M	<0.66 M	<0.66	<0.66	<0.66 M	<0.66 M	<0.66 M	<0.66	<0.66	<0.66 M	<0.66 M	<0.66 M	<0.66	<0.66	<0.66	
CARBON TETRACHLORIDE	UG/L	<0.49	<0.49 M	<0.49 M	<0.49	<0.49	<0.49 M	<0.49 M	<0.49 M	<0.49	<0.49	<0.49 M	<0.49 M	<0.49 M	<0.49	<0.49	<0.49	
CHLOROBENZENE	UG/L	<0.41	<0.41 M	<0.41 M	<0.41	<0.41	<0.41 M	<0.41 M	<0.41 M	<0.41	<0.41	<0.41 M	<0.41 M	<0.41 M	<0.41	<0.41	<0.41	
CHLORODIBROMOMETHANE	UG/L	<0.81	<0.81 M	<0.81 M	<0.81	<0.81	<0.81 M	<0.81 M	<0.81 M	<0.81	<0.81	<0.81 M	<0.81 M	<0.81 M	<0.81	<0.81	<0.81	
CHLOROETHANE	UG/L	<0.97	<0.97 M	<0.97 M	<0.97	<0.97 &	<0.97	<0.97 M	<0.97 M	<0.97 M	<0.97	<0.97 &	<0.97	<0.97 M	<0.97 M	<0.97	<0.97 &	
CHLOROFORM	UG/L	<0.37	<0.37 M	<0.37 M	<0.37	<0.37	<0.37 M	<0.37 M	<0.37 M	<0.37 M	<0.37	<0.37 M	<0.37 M	<0.37 M	<0.37	<0.37	<0.37	
CHLOROMETHANE	UG/L	0.95 u	<0.24 M	<0.24 M	<0.24	<0.24	1.3 u	<0.24 M	<0.24 M	<0.24 M	<0.24	<0.24 M	<0.24 M	<0.24 M	<0.24	<0.24	<0.24	
CIS-1,2-DICHLOROETHENE	UG/L	<0.83	<0.83	<0.83 M	<0.83	<0.83	<0.83 M	<0.83 M	<0.83 M	<0.83	<0.83	<0.83 M	<0.83 M	<0.83 M	<0.83	<0.83	<0.83	
CIS-1,3-DICHLOROPROPENE	UG/L	<0.19	<0.19 M	<0.19 M	<0.19	<0.19	<0.19 M	<0.19 M	<0.19 M	<0.19	<0.19	<0.19 M	<0.19 M	<0.19 M	<0.19	<0.19	<0.19	
ETHYLBENZENE	UG/L	<0.54	<0.54 M	<0.54 M	<0.54	<0.54	<0.54 M	<0.54 M	<0.54 M	<0.54	<0.54	<0.54 M	<0.54 M	<0.54 M	<0.54	<0.54	<0.54	
METHYLENE CHLORIDE	UG/L	<0.43	<0.43 M	<0.43 M	<0.43	<0.43	<0.43 M	<0.43 M	<0.43 M	<0.43	<0.43	<0.43 M	<0.43 M	<0.43 M	<0.43	<0.43	<0.43	
STYRENE	UG/L	<0.86	<0.86 M	<0.86 M	<0.86	<0.86	<0.86 M	<0.86 M	<0.86 M	<0.86	<0.86	<0.86 M	<0.86 M	<0.86 M	<0.86	<0.86	<0.86	
TETRACHLOROETHENE	UG/L	<0.45	<0.45 M	<0.45 M	<0.45	<0.45	1.4 Xu	<0.45 M	<0.45 M	<0.45 M	<0.45	<						

Table B3
Residential Well Data Summary
July, September, December 2006
Lemberger Landfill and Lemberger Transport and Recycling Sites

PARAMETER	UNITS	GR-41 7/26/06	GR-41 9/13/06	GR-41 12/8/06	GR-41 3/16/07	GR-41 6/20/07	GR-60R 7/26/06	GR-60R 9/14/06	GR-60R 12/8/06	GR-60R 3/16/07	GR-60R 6/20/07	GR-62 7/27/06	GR-62 9/14/06	GR-62 12/12/06	GR-62 3/22/07	GR-62 6/21/07
FIELD PARAMETERS																
CONDUCTANCE, SPECIFIC	UMHOS/CM	740	825	806	854	829	626	717	702	702	729	537	554	545	535	551
PH, FIELD	SU	7.38	7.21	7.21	7.17	7.24	7.16	7.07	7.05	7.15	7.04	7.44	7.29	7.42	7.50	7.54
TEMPERATURE	DEG C	12	11	8	8	11	10	10	8	8	10	12	12	8	8	11
TURBIDITY, FIELD		NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
VOLATILE ORGANICS																
1,1,1-TRICHLOROETHANE	UG/L	<0.90	<0.90 M	<0.90 M	<0.90	<0.90	<0.90 M	<0.90 M	<0.90	<0.90	<0.90 M	<0.90 M	<0.90	<0.90	<0.90	
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.20	<0.20 M	<0.20 M	<0.20	<0.20	<0.20 M	<0.20 M	<0.20	<0.20	<0.20 M	<0.20 M	<0.20	<0.20	<0.20	
1,1,2-TRICHLOROETHANE	UG/L	<0.42	<0.42 M	<0.42 M	<0.42	<0.42	<0.42 M	<0.42 M	<0.42	<0.42	<0.42 M	<0.42 M	<0.42	<0.42	<0.42	
1,1-DICHLOROETHANE	UG/L	<0.75	<0.75 M	<0.75 M	<0.75	<0.75	<0.75 M	<0.75 M	<0.75	<0.75	<0.75 M	<0.75 M	<0.75	<0.75	<0.75	
1,1-DICHLOROETHENE	UG/L	<0.57	<0.57 M	<0.57 M	<0.57	<0.57	<0.57 M	<0.57 M	<0.57	<0.57	<0.57 M	<0.57 M	<0.57	<0.57	<0.57	
1,2-DICHLOROETHANE	UG/L	<0.36	<0.36 M	<0.36 M	<0.36	<0.36	<0.36 M	<0.36 M	<0.36	<0.36	<0.36 M	<0.36 M	<0.36	<0.36	<0.36	
1,2-DICHLOROETHENE, TOTAL	UG/L	<1.4	<1.4 M	<1.4 M	--	--	<1.4	<1.4 M	<1.4 M	--	--	<1.4	<1.4 M	<1.4 M	--	
1,2-DICHLOROPROPANE	UG/L	<0.46	<0.46 M	<0.46 M	<0.46	<0.46	<0.46 M	<0.46 M	<0.46	<0.46	<0.46 M	<0.46 M	<0.46	<0.46	<0.46	
2-BUTANONE	UG/L	<4.3	<4.3 M	<4.3 M	<4.3	<4.3	<4.3 M	<4.3 M	<4.3	<4.3	<4.3 M	<4.3 M	<4.3	<4.3	<4.3	
2-HEXANONE	UG/L	<1.1	<1.1 M	<1.1 M	<1.1	<1.1	<1.1 M	<1.1 M	<1.1	<1.1	<1.1 M	<1.1 M	<1.1	<1.1	<1.1	
4-METHYL-2-PENTANONE	UG/L	<1.2	<1.2 M	<1.2 M	<1.2	<1.2	<1.2 M	<1.2 M	<1.2	<1.2	<1.2 M	<1.2 M	<1.2	<1.2	<1.2	
ACETONE	UG/L	<2.3	<2.3 M	<2.3 M	<2.3	<2.3	<2.3 M	<2.3 M	<2.3	<2.3	<2.3 M	<2.3 M	<2.3	<2.3	16	
BENZENE	UG/L	<0.41	<0.41 M	<0.41 M	<0.41	<0.41	<0.41 M	<0.41 M	<0.41	<0.41	<0.41 M	<0.41 M	<0.41	<0.41	<0.41	
BROMODICHLOROMETHANE	UG/L	<0.56	<0.56 M	<0.56 M	<0.56	<0.56	<0.56 M	<0.56 M	<0.56	<0.56	<0.56 M	<0.56 M	<0.56	<0.56	<0.56	
BROMOFORM	UG/L	<0.94	<0.94 M	<0.94 M	<0.94	<0.94	<0.94 M	<0.94 M	<0.94	<0.94	<0.94 M	<0.94 M	<0.94	<0.94	<0.94	
BROMOMETHANE	UG/L	<0.91	<0.91 M	<0.91 M	<0.91	<0.91 &	<0.91	<0.91 M	<0.91 M	<0.91	<0.91 &	<0.91	<0.91 M	<0.91 M	<0.91 &	
CARBON DISULFIDE	UG/L	<0.66	<0.66 M	<0.66 M	<0.66	<0.66	<0.66 M	<0.66 M	<0.66	<0.66	<0.66 M	<0.66 M	<0.66	<0.66	<0.66	
CARBON TETRACHLORIDE	UG/L	<0.49	<0.49 M	<0.49 M	<0.49	<0.49	<0.49 M	<0.49 M	<0.49	<0.49	<0.49 M	<0.49 M	<0.49	<0.49	<0.49	
CHLOROBENZENE	UG/L	<0.41	<0.41 M	<0.41 M	<0.41	<0.41	<0.41 M	<0.41 M	<0.41	<0.41	<0.41 M	<0.41 M	<0.41	<0.41	<0.41	
CHLORODIBROMOMETHANE	UG/L	<0.81	<0.81 M	<0.81 M	<0.81	<0.81	<0.81 M	<0.81 M	<0.81	<0.81	<0.81 M	<0.81 M	<0.81	<0.81	<0.81	
CHLOROETHANE	UG/L	<0.97	<0.97 M	<0.97 M	<0.97	<0.97 &	<0.97	<0.97 M	<0.97 M	<0.97	<0.97 &	<0.97	<0.97 M	<0.97 M	<0.97 &	
CHLOROFORM	UG/L	<0.37	<0.37 M	<0.37 M	<0.37	<0.37	<0.37 M	<0.37 M	<0.37	<0.37	<0.37 M	<0.37 M	<0.37	<0.37	<0.37	
CHLOROMETHANE	UG/L	1.8 u	<0.24 M	<0.24 M	<0.24	<0.24	<0.24 M	<0.24 M	<0.24	<0.24	<0.24 M	<0.24 M	<0.24	<0.24	<0.24	
CIS-1,2-DICHLOROETHENE	UG/L	<0.83	<0.83 M	<0.83 M	<0.83	<0.83	<0.83 M	<0.83 M	<0.83	<0.83	<0.83 M	<0.83 M	<0.83	<0.83	<0.83	
CIS-1,3-DICHLOROPROPENE	UG/L	<0.19	<0.19 M	<0.19 M	<0.19	<0.19	<0.19 M	<0.19 M	<0.19	<0.19	<0.19 M	<0.19 M	<0.19	<0.19	<0.19	
ETHYLBENZENE	UG/L	<0.54	<0.54 M	<0.54 M	<0.54	<0.54	<0.54 M	<0.54 M	<0.54	<0.54	<0.54 M	<0.54 M	<0.54	<0.54	<0.54	
METHYLENE CHLORIDE	UG/L	<0.43	<0.43 M	<0.43 M	<0.43	<0.43	<0.43 M	<0.43 M	<0.43	<0.43	<0.43 M	<0.43 M	<0.43	<0.43	<0.43	
STYRENE	UG/L	<0.86	<0.86 M	<0.86 M	<0.86	<0.86	<0.86 M	<0.86 M	<0.86	<0.86	<0.86 M	<0.86 M	<0.86	<0.86	<0.86	
TETRACHLOROETHENE	UG/L	1.6 Xu	<0.45 M	<0.45 M	<0.45	<0.45	0.89 QXu	<0.45 M	<0.45 M	<0.45	<0.45 M	<0.45 M	<0.45	<0.45	<0.45	
TOLUENE	UG/L	<0.67	<0.67 M	<0.67 M	<0.67	<0.67	<0.67 M	<0.67 M	<0.67	<0.67	<0.67 M	<0.67 M	<0.67	<0.67	<0.67	
TRANS-1,2-DICHLOROETHENE	UG/L	<0.89	<0.89 M	<0.89 M	<0.89	<0.89	<0.89 M	<0.89 M	<0.89	<0.89	<0.89 M	<0.89 M	<0.89	<0.89	<0.89	
TRANS-1,3-DICHLOROPROPENE	UG/L	<0.19	<0.19 M	<0.19 M	<0.19	<0.19	<0.19 M	<0.19 M	<0.19	<0.19	<0.19 M	<0.19 M	<0.19	<0.19	<0.19	
TRICHLOROETHENE	UG/L	<0.48	<0.48 M	<0.48 M	<0.48	<0.48	<0.48 M	<0.48 M	<0.48	<0.48	<0.48 M	<0.48 M	<0.48	<0.48	<0.48	
VINYL CHLORIDE	UG/L	<0.18</td														

Table B3
Residential Well Data Summary
July, September, December 2006
Lemberger Landfill and Lemberger Transport and Recycling Sites

PARAMETER	UNITS	GR-63 7/27/06	GR-63 DUP 7/27/06	GR-63 9/13/06	GR-63 12/11/06	GR-63 3/22/07	GR-64 6/21/07	GR-64 7/27/06	GR-64 9/13/06	GR-64 12/12/06	GR-64 3/22/07	GR-64 6/21/07	GR-64 DUP 6/21/07	GR-65 7/27/06	GR-65 9/18/06	GR-65 12/11/06	GR-65 3/22/07	GR-65 6/23/07
FIELD PARAMETERS																		
CONDUCTANCE, SPECIFIC	UMHOS/CM	504	--	555	552	548	545	535	594	590	588	591	--	572	639	645	643	632
PH, FIELD	SU	7.62	--	7.27	7.37	6.46	7.35	7.67	7.51	7.47	7.52	7.50	--	7.23	7.03	6.60	7.42	7.49
TEMPERATURE	DEG C	12	--	10	8	7	11	12	12	9	8	11	--	12	12	--	8	11
TURBIDITY, FIELD	NONE	--	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	--	NONE	NONE	NONE	NONE	NONE
VOLATILE ORGANICS																		
1,1,1-TRICHLOROETHANE	UG/L	<0.90	<0.90	<0.90 M	<0.90 M	<0.90	<0.90	<0.90 M	<0.90 M	<0.90	<0.90	<0.90	<0.90	<0.90 M	<0.90 M	<0.90	<0.90	
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.20	<0.20	<0.20 M	<0.20 M	<0.20	<0.20	<0.20	<0.20 M	<0.20 M	<0.20	<0.20	<0.20	<0.20 M	<0.20 M	<0.20	<0.20	
1,1,2-TRICHLOROETHANE	UG/L	<0.42	<0.42	<0.42 M	<0.42 M	<0.42	<0.42	<0.42	<0.42 M	<0.42 M	<0.42	<0.42	<0.42	<0.42 M	<0.42 M	<0.42	<0.42	
1,1-DICHLOROETHANE	UG/L	<0.75	<0.75	<0.75 M	<0.75 M	<0.75	<0.75	<0.75	<0.75 M	<0.75 M	<0.75	<0.75	<0.75	<0.75 M	<0.75 M	<0.75	<0.75	
1,1-DICHLOROETHENE	UG/L	<0.57	<0.57	<0.57 M	<0.57 M	<0.57	<0.57	<0.57	<0.57 M	<0.57 M	<0.57	<0.57	<0.57	<0.57 M	<0.57 M	<0.57	<0.57	
1,2-DICHLOROETHANE	UG/L	<0.36	<0.36	<0.36 M	<0.36 M	<0.36	<0.36	<0.36	<0.36 M	<0.36 M	<0.36	<0.36	<0.36	<0.36 M	<0.36 M	<0.36	<0.36	
1,2-DICHLOROETHENE, TOTAL	UG/L	<1.4	<1.4	<1.4 M	<1.4 M	--	--	<1.4	<1.4 M	<1.4 M	--	--	--	<1.4	<1.4 M	<1.4 M	--	--
1,2-DICHLOROPROPANE	UG/L	<0.46	<0.46	<0.46 M	<0.46 M	<0.46	<0.46	<0.46	<0.46 M	<0.46 M	<0.46	<0.46	<0.46	<0.46 M	<0.46 M	<0.46	<0.46	
2-BUTANONE	UG/L	<4.3	<4.3	<4.3 M	<4.3 M	<4.3	<4.3	<4.3	<4.3 M	<4.3 M	<4.3	<4.3	<4.3	<4.3 M	<4.3 M	<4.3	<4.3	
2-HEXANONE	UG/L	<1.1	<1.1	<1.1 M	<1.1 M	<1.1	<1.1	<1.1	<1.1 M	<1.1 M	<1.1	<1.1	<1.1	<1.1 M	<1.1 M	<1.1	<1.1	
4-METHYL-2-PENTANONE	UG/L	<1.2	<1.2	<1.2 M	<1.2 M	<1.2	<1.2	<1.2	<1.2 M	<1.2 M	<1.2	<1.2	<1.2	<1.2 M	<1.2 M	<1.2	<1.2	
ACETONE	UG/L	<2.3	<2.3	<2.3 M	<2.3 M	<2.3	<2.3	<2.3	<2.3 M	<2.3 M	<2.3	<2.3	<2.3	9.5 u	<2.3 M	<2.3 M	<2.3	<2.3
BENZENE	UG/L	<0.41	<0.41	<0.41 M	<0.41 M	<0.41	<0.41	<0.41	<0.41 M	<0.41 M	<0.41	<0.41	<0.41	<0.41 M	<0.41 M	<0.41	<0.41	
BROMODICHLOROMETHANE	UG/L	<0.56	<0.56	<0.56 M	<0.56 M	<0.56	<0.56	<0.56	<0.56 M	<0.56 M	<0.56	<0.56	<0.56	<0.56 M	<0.56 M	<0.56	<0.56	
BROMOFORM	UG/L	<0.94	<0.94	<0.94 M	<0.94 M	<0.94	<0.94	<0.94	<0.94 M	<0.94 M	<0.94	<0.94	<0.94	<0.94 M	<0.94 M	<0.94	<0.94 &	
BROMOMETHANE	UG/L	<0.91	<0.91	<0.91 M	<0.91 M	<0.91	<0.91 &	<0.91	<0.91 M	<0.91 M	<0.91	<0.91 &	<0.91 &	<0.91 M	<0.91 M	<0.91	<0.91	
CARBON DISULFIDE	UG/L	<0.66	<0.66	<0.66 M	<0.66 M	<0.66	<0.66	<0.66	<0.66 M	<0.66 M	<0.66	<0.66	<0.66	<0.66 M	<0.66 M	<0.66	<0.66	
CARBON TETRACHLORIDE	UG/L	<0.49	<0.49	<0.49 M	<0.49 M	<0.49	<0.49	<0.49	<0.49 M	<0.49 M	<0.49	<0.49	<0.49	<0.49 M	<0.49 M	<0.49	<0.49	
CHLOROBENZENE	UG/L	<0.41	<0.41	<0.41 M	<0.41 M	<0.41	<0.41	<0.41	<0.41 M	<0.41 M	<0.41	<0.41	<0.41	<0.41 M	<0.41 M	<0.41	<0.41	
CHLORODIBROMOMETHANE	UG/L	<0.81	<0.81	<0.81 M	<0.81 M	<0.81	<0.81	<0.81	<0.81 M	<0.81 M	<0.81	<0.81	<0.81	<0.81 M	<0.81 M	<0.81	<0.81	
CHLOROETHANE	UG/L	<0.97	<0.97	<0.97 M	<0.97 M	<0.97	<0.97 &	<0.97	<0.97 M	<0.97 M	<0.97	<0.97 &	<0.97 &	<0.97 M	<0.97 M	<0.97	<0.97	
CHLOROFORM	UG/L	<0.37	<0.37	<0.37 M	<0.37 M	<0.37	<0.37	<0.37	<0.37 M	<0.37 M	<0.37	<0.37	<0.37	<0.37 M	<0.37 M	<0.37	<0.37	
CHLOROMETHANE	UG/L	1.3 u	1.3 u	<0.24 M	<0.24 M	<0.24	0.27 Q	1.0 u	<0.24 M	<0.24 M	<0.24	<0.24	<0.24	2.3 u	<0.24 M	<0.24 M	<0.24	<0.24
CIS-1,2-DICHLOROETHENE	UG/L	<0.83	<0.83	<0.83	<0.83 M	<0.83	<0.83	<0.83	<0.83 M	<0.83 M	<0.83	<0.83	<0.83	<0.83	<0.83 M	<0.83	<0.83	
CIS-1,3-DICHLOROPROPENE	UG/L	<0.19	<0.19	<0.19 M	<0.19 M	<0.19	<0.19	<0.19	<0.19 M	<0.19 M	<0.19	<0.19	<0.19	<0.19 M	<0.19 M	<0.19	<0.19	
ETHYLBENZENE	UG/L	<0.54	<0.54	<0.54 M	<0.54 M	<0.54	<0.54	<0.54	<0.54 M	<0.54 M	<0.54	<0.54	<0.54	<0.54 M	<0.54 M	<0.54	<0.54	
METHYLENE CHLORIDE	UG/L	<0.43	<0.43	<0.43 M	<0.43 M	<0.43	<0.43	<0.43	<0.43 M	<0.43 M	<0.43	<0.43	<0.43	<0.43 M	<0.43 M	<0.43	<0.43	
STYRENE	UG/L	<0.86	<0.86	<0.86 M	<0.86 M	<0.86	<0.86	<0.86	<0.86 M	<0.86 M	<0.86	<0.86	<0.86	<0.86 M	<0.86 M	<0.86	<0.86	
TETRACHLOROETHENE	UG/L	1.5 Xu	1.5 QXu	<0.45 M	<0.45 M	<0.45	<0.45	1.5 QXu	<0.45 M	<0.45 M	<0.45	<0.45	<0.45	1.3 QXu	<0.45 M	<0.4		

Table B4
Extraction Well Data Summary
July 2006
Lemberger Landfill and Lemberger Transport and Recycling Sites

		EW-01D 7/23/06	EW-03D 7/23/06	EW-03D DUP 7/23/06	EW-04D 7/23/06	EW-04I 7/23/06	EW-06D 7/23/06	EW-06S 7/23/06	EW-07D 7/23/06	EW-08D 7/23/06	EW-09D 7/23/06
FIELD PARAMETERS											
CONDUCTANCE, SPECIFIC	UMHOS/CM	976	624	--	633	645	832	965	671	852	834
PH, FIELD	SU	7.02	7.37	--	7.38	7.36	6.97	7.00	7.34	6.95	6.98
TEMPERATURE	DEG C	12	10	--	10	10	10	14	10	10	10
TURBIDITY, FIELD	NONE	NONE	--	NONE	NONE	NONE	NONE	SLIGHT	NONE	NONE	NONE
METALS											
ALUMINUM, DISSOLVED	UG/L	130 A	<40	<40	<40	<40	<40	<40	<40	<40	<40
ALUMINUM, TOTAL	UG/L	<40	42 Q	<40	<40	<40	<40	<40	<40	<40	<40
ANTIMONY, DISSOLVED	UG/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
ANTIMONY, TOTAL	UG/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
ARSENIC, DISSOLVED	UG/L	0.69 Q	0.67 Q	0.50 Q	0.71 Q	0.45 Q	<0.40	0.49 Q	0.42 Q	<0.40	<0.40
ARSENIC, TOTAL	UG/L	0.74 Q	0.44 Q	0.41 Q	0.59 Q	<0.40	<0.40	0.58 Q	<0.40	<0.40	<0.40
BARIUM, DISSOLVED	UG/L	74	55	52	70	54	68	63	38	110	90
BARIUM, TOTAL	UG/L	85	59 E	67	78	61	71	59	41	110	100
BERYLLIUM, DISSOLVED	UG/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
BERYLLIUM, TOTAL	UG/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
CADMUM, DISSOLVED	UG/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
CADMUM, TOTAL	UG/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
CALCIUM, DISSOLVED	UG/L	120000	71000	73000	74000	74000	100000	110000	77000	100000	99000
CALCIUM, TOTAL	UG/L	120000	74000 Ej	81000	77000	75000	99000	110000	78000	110000	110000
CHROMIUM, DISSOLVED	UG/L	<0.40	0.93 Qu	0.69 Qu	0.81 Qu	<0.40	0.74 Qu	0.42 Qu	<0.40	0.47 Qu	0.73 Qu
CHROMIUM, TOTAL	UG/L	1.2 QAu	1.3 QAu	1.5 Au	0.88 QAu	0.66 QAU	0.41 QAu	0.91 QAu	0.80 QAu	0.74 QAu	1.1 QAu
COBALT, DISSOLVED	UG/L	2.6	1.0 Q	<0.40	<0.40	1.4	1.2 Q	1.4	2.3	2.2	<0.40
COBALT, TOTAL	UG/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	3.1
COPPER, DISSOLVED	UG/L	4.0 Q	<2.0	<2.0	<2.0	<2.0	5.2 Q	<2.0	<2.0	<2.0	5.3 Q
COPPER, TOTAL	UG/L	15	<2.0	<2.0	<2.0	<2.0	4.7 Q	3.9 Q	<2.0	2.2 Q	4.7 Q
IRON, DISSOLVED	UG/L	180	130 Q	110 Q	120 Q	120 Q	170	200	130 Q	180	200
IRON, TOTAL	UG/L	230	130	150	140	130 Q	180	310	150	200	200
LEAD, DISSOLVED	UG/L	<0.40 A	<0.40 A	<0.40 A	<0.40 A	<0.40 A	<0.40 A	<0.40 A	<0.40 A	<0.40 A	<0.40 A
LEAD, TOTAL	UG/L	1.1 Q	<0.40	<0.40	<0.40	<0.40	2.3	<0.40	<0.40	<0.40	3.8
MAGNESIUM, DISSOLVED	UG/L	58000	45000	41000	44000	44000	57000	54000	43000	54000	55000
MAGNESIUM, TOTAL	UG/L	61000	40000 Ej	41000	43000	39000	55000	49000	41000	55000	52000
MANGANESE, DISSOLVED	UG/L	93	2.9	<0.60	<0.60	2.3	14	58	3.9	13	5.4
MANGANESE, TOTAL	UG/L	75	<0.60	<0.60	<0.60	<0.60	13	59	<0.60	8.8	10
MERCURY, DISSOLVED	UG/L	<0.072	<0.072	<0.072	<0.072	<0.072	<0.072	<0.072	<0.072	<0.072	<0.072
MERCURY, TOTAL	UG/L	<0.072	<0.072	<0.072	<0.072	<0.072	<0.072	<0.072	<0.072	<0.072	<0.072
NICKEL, DISSOLVED	UG/L	6.3	2.2 Q	2.1 Q	1.9 Q	2.3 Q	2.6 Q	5.1	2.5 Q	2.7 Q	2.4 Q
NICKEL, TOTAL	UG/L	3.1 Q	1.4 Q	1.6 Q	1.5 Q	1.5 Q	2.2 Q	7.6	1.6 Q	2.4 Q	2.8 Q
POTASSIUM, DISSOLVED	UG/L	1800	1600	1500	1500	1400	1500	6900	1300	1400	1900
POTASSIUM, TOTAL	UG/L	2000	1500	1400	1400	1400	1500	6600	1300	1400	1800
SELENIUM, DISSOLVED	UG/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
SELENIUM, TOTAL	UG/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
SILVER, DISSOLVED	UG/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
SILVER, TOTAL	UG/L	<0.40	<0.40	<0.40	<0.40	0.40 Q	<0.40	<0.40	<0.40	<0.40	<0.40
SODIUM, DISSOLVED	UG/L	5900	5400	5000	5300	5100	10000	9500	5400	11000	9600
SODIUM, TOTAL	UG/L	6400	5500	5200	5500	5600	11000	9600	6200	14000	10000
THALLIUM, DISSOLVED	UG/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
THALLIUM, TOTAL	UG/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40

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		EW-01D 7/23/06	EW-03D 7/23/06	EW-03D DUP 7/23/06	EW-04D 7/23/06	EW-04I 7/23/06	EW-06D 7/23/06	EW-06S 7/23/06	EW-07D 7/23/06	EW-08D 7/23/06	EW-09D 7/23/06
METALS (cont'd)											
VANADIUM, DISSOLVED	UG/L	<1.2	<1.2	<1.2	1.5 Q	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
VANADIUM, TOTAL	UG/L	1.2 Q	<1.2	1.2 Q	1.6 Q	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
ZINC, DISSOLVED	UG/L	<4.0 A	16 A	<4.0 A	<4.0 A	<4.0 A	200 A	34 A	<4.0 A	110 A	240 A
ZINC, TOTAL	UG/L	9.4 Q	<4.0	<4.0	<4.0	5.1 Q	240	43	<4.0	160	330
VOLATILE ORGANICS											
1,1,1-TRICHLOROETHANE	UG/L	530	6.6	6.9	17	18	830	<0.90	29	410	380
1,1,2,2-TETRACHLOROETHANE	UG/L	<1.0	<0.20	<0.20	<0.20	<0.20	<2.0	<0.20	<0.20	<0.40	<0.80
1,1,2-TRICHLOROETHANE	UG/L	<2.1	<0.42	<0.42	<0.42	<0.42	<4.2	<0.42	<0.42	<0.84	<1.7
1,1-DICHLOROETHANE	UG/L	250	2.9	2.8	6.9	7.9	490	2.6	12	230	150
1,1-DICHLOROETHENE	UG/L	36	0.72 Q	<0.57	1.6 Q	1.9 Q	160	<0.57	3.8	64	49
1,2-DICHLOROETHANE	UG/L	<1.8	<0.36	<0.36	<0.36	<0.36	<3.6	<0.36	<0.36	<0.72	<1.4
1,2-DICHLOROETHENE, TOTAL	UG/L	87	1.8 Q	1.7 Q	4.0 Q	4.2 Q	470	<1.4	12	170	77
1,2-DICHLOROPROPANE	UG/L	<2.3	<0.46	<0.46	<0.46	<0.46	<4.6	<0.46	<0.46	<0.92	<1.8
2-BUTANONE	UG/L	<22	<4.3	<4.3	<4.3	<4.3	<43	<4.3	<4.3	<8.6	<17
2-HEXANONE	UG/L	<5.5	<1.1	<1.1	<1.1	<1.1	<11	<1.1	<1.1	<2.2	<4.4
4-METHYL-2-PENTANONE	UG/L	<6.0	<1.2	<1.2	<1.2	<1.2	<12	<1.2	<1.2	<2.4	<4.8
ACETONE	UG/L	<12	<2.3	<2.3	<2.3	<2.3	<23	<2.3	6.7 Qu	<4.6	<9.3
BENZENE	UG/L	<2.0	<0.41	<0.41	<0.41	<0.41	<4.1	<0.41	<0.41	<0.82	<1.6
BROMODICHLOROMETHANE	UG/L	<2.8	<0.56	<0.56	<0.56	<0.56	<5.6	<0.56	<0.56	<1.1	<2.2
BROMOFORM	UG/L	<4.7	<0.94	<0.94	<0.94	<0.94	<9.4	<0.94	<0.94	<1.9	<3.8
BROMOMETHANE	UG/L	<4.6	<0.91	<0.91	<0.91	<0.91	<9.1	<0.91	<0.91	<1.8	<3.6
CARBON DISULFIDE	UG/L	<3.3	<0.66	<0.66	<0.66	<0.66	<6.6	<0.66	<0.66	<1.3	<2.6
CARBON TETRACHLORIDE	UG/L	<2.4	<0.49	<0.49	<0.49	<0.49	<4.9	<0.49	<0.49	<0.98	<2.0
CHLOROBENZENE	UG/L	<2.0	<0.41	<0.41	<0.41	<0.41	<4.1	<0.41	<0.41	<0.82	<1.6
CHLORODIBROMOMETHANE	UG/L	<4.1	<0.81	<0.81	<0.81	<0.81	<8.1	<0.81	<0.81	<1.6	<3.2
CHLOROETHANE	UG/L	16	<0.97	<0.97	<0.97	<0.97	31 Q	<0.97	<0.97	6.9	<3.9
CHLOROFORM	UG/L	<1.8	<0.37	<0.37	<0.37	<0.37	<3.7	<0.37	<0.37	<0.74	<1.5
CHLOROMETHANE	UG/L	<1.2	1.8 u	1.3 u	1.2 u	<0.24	<2.4	2.8 u.	<0.24	<0.48	<0.96
CIS-1,2-DICHLOROETHENE	UG/L	87	1.8 Q	1.7 Q	4.0	4.2	470	<0.83	12	170	77
CIS-1,3-DICHLOROPROPENE	UG/L	<0.95	<0.19	<0.19	<0.19	<0.19	<1.9	<0.19	<0.19	<0.38	<0.76
ETHYLBENZENE	UG/L	<2.7	<0.54	<0.54	<0.54	<0.54	<5.4	<0.54	<0.54	<1.1	<2.2
METHYLENE CHLORIDE	UG/L	<2.2	<0.43	<0.43	<0.43	<0.43	<4.3	<0.43	<0.43	<0.86	<1.7
STYRENE	UG/L	<4.3	<0.86	<0.86	<0.86	<0.86	<8.6	<0.86	<0.86	<1.7	<3.4
TETRACHLOROETHENE	UG/L	5.9 Q	2.0 Xu	1.6 Xu	1.3 QXu	1.9 Xu	5.2 QX	1.4 QXu	1.5 Xu	2.7 Q	2.8 Q
TOLUENE	UG/L	<3.4	<0.67	<0.67	<0.67	<0.67	<6.7	<0.67	<0.67	<1.3	<2.7
TRANS-1,2-DICHLOROETHENE	UG/L	<4.4	<0.89	<0.89	<0.89	<0.89	<8.9	<0.89	<0.89	<1.8	<3.6
TRANS-1,3-DICHLOROPROPENE	UG/L	<0.95	<0.19	<0.19	<0.19	<0.19	<1.9	<0.19	<0.19	<0.38	<0.76
TRICHLOROETHENE	UG/L	31	1.0 Q	1.0 Q	2.9	3.3	140	<0.48	4.7	35	25
VINYL CHLORIDE	UG/L	<0.90	<0.18	<0.18	<0.18	<0.18	<1.8	<0.18	<0.18	<0.36	<0.72
XYLENE, TOTAL	UG/L	<13	<2.6	<2.6	<2.6	<2.6	<26	<2.6	<2.6	<5.2	<10
SEMOVOLATILE ORGANICS											
1,2,4-TRICHLOROBENZENE	UG/L	<2.0	<2.1	<2.1	<2.0	<1.9	<2.5	<2.2	<1.9	<1.9	<2.1
1,2-DICHLOROBENZENE	UG/L	<2.0	<2.0	<2.1	<2.0	<1.8	<2.4	<2.1	<1.8	<1.9	<2.1
1,3-DICHLOROBENZENE	UG/L	<2.0	<2.1	<2.1	<2.0	<1.9	<2.5	<2.2	<1.9	<1.9	<2.1
1,4-DICHLOROBENZENE	UG/L	<2.0	<2.0	<2.1	<2.0	<1.9	<2.5	<2.2	<1.9	<1.9	<2.1
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/L	<0.65	<0.67	<0.68	<0.65	<0.61	<0.81	<0.71	<0.61	<0.63	<0.69
2,4,5-TRICHLOROPHENOL	UG/L	<1.3 *	<1.3 *	<1.3 *	<1.3 *	<1.3 *	<1.6 *	<1.4 *	<1.2 *	<1.2 *	<1.3 *

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		EW-01D 7/23/06	EW-03D 7/23/06	EW-03D DUP 7/23/06	EW-04D 7/23/06	EW-04I 7/23/06	EW-06D 7/23/06	EW-06S 7/23/06	EW-07D 7/23/06	EW-08D 7/23/06	EW-09D 7/23/06
SEMIVOLATILE ORGANICS (cont'd)											
2,4,6-TRICHLOROPHENOL	UG/L	<0.93 &	<0.95 &	<0.97 &	<0.93 &	<0.87 &	<1.2 &	<1.0 &	<0.87 &	<0.89 &	<0.98 &
2,4-DICHLOROPHENOL	UG/L	<0.92	<0.95	<0.97	<0.92	<0.87	<1.1	<1.0	<0.87	<0.89	<0.98
2,4-DIMETHYLPHENOL	UG/L	<0.77	<0.79	<0.81	<0.77	<0.72	<0.96	<0.84	<0.72	<0.74	<0.82
2,4-DINITROPHENOL	UG/L	<2.4	<2.5	<2.5	<2.4	<2.3	<3.0	<2.6	<2.3	<2.3	<2.6
2,4-DINITROTOLUENE	UG/L	<0.99	<1.0	<1.0	<0.99	<0.93	<1.2	<1.1	<0.93	<0.96	<1.0
2,6-DINITROTOLUENE	UG/L	<0.71	<0.73	<0.75	<0.71	<0.67	<0.88	<0.78	<0.67	<0.69	<0.75
2-CHLORONAPHTHALENE	UG/L	<1.3	<1.4	<1.4	<1.3	<1.2	<1.6	<1.4	<1.2	<1.3	<1.4
2-CHLOROPHENOL	UG/L	<0.90	<0.92	<0.94	<0.90	<0.85	<1.1	<0.99	<0.85	<0.87	<0.95
2-METHYLNAPHTHALENE	UG/L	<1.6	<1.7	<1.7	<1.6	<1.5	<2.0	<1.8	<1.5	<1.6	<1.7
2-METHYLPHENOL	UG/L	<0.78	<0.80	<0.81	<0.78	<0.73	<0.96	<0.85	<0.73	<0.75	<0.82
2-NITROANILINE	UG/L	<0.69	<0.71	<0.73	<0.69	<0.65	<0.86	<0.76	<0.65	<0.67	<0.73
2-NITROPHENOL	UG/L	<1.0	<1.1	<1.1	<1.0	<0.98	<1.3	<1.1	<0.98	<1.0	<1.1
3,3'-DICHLOROBENZIDINE	UG/L	<1.4	<1.5	<1.5	<1.4	<1.4	<1.8	<1.6	<1.4	<1.4	<1.5
3-NITROANILINE	UG/L	<0.88	<0.90	<0.92	<0.88	<0.82	<1.1	<0.96	<0.82	<0.85	<0.93
4,6-DINITRO-2-METHYLPHENOL	UG/L	<1.0	<1.1	<1.1	<1.0	<0.97	<1.3	<1.1	<0.97	<1.0	<1.1
4-BROMOPHENYL-PHENYLETHER	UG/L	<0.85 &	<0.87 &	<0.89 &	<0.85 &	<0.80 &	<1.1 &	<0.93 &	<0.80 &	<0.82 &	<0.90 &
4-CHLORO-3-METHYLPHENOL	UG/L	<0.96	<0.99	<1.0	<0.96	<0.90	<1.2	<1.0	<0.90	<0.93	<1.0
4-CHLOROANILINE	UG/L	<1.0	<1.1	<1.1	<1.0	<0.98	<1.3	<1.1	<0.98	<1.0	<1.1
4-CHLOROPHENYL-PHENYLETHER	UG/L	<0.99	<1.0	<1.0	<0.99	<0.93	<1.2	<1.1	<0.93	<0.96	<1.0
4-METHYLPHENOL	UG/L	<0.75	<0.77	<0.79	<0.75	<0.71	<0.94	<0.82	<0.71	<0.73	<0.80
4-NITROANILINE	UG/L	<0.73	<0.75	<0.76	<0.73	<0.68	<0.91	<0.80	<0.68	<0.70	<0.77
4-NITROPHENOL	UG/L	<0.98	<1.0	<1.0	<0.98	<0.92	<1.2	<1.1	<0.92	<0.95	<1.0
ACENAPHTHENE	UG/L	<1.1	<1.1	<1.1	<1.1	<1.0	<1.4	<1.2	<1.0	<1.1	<1.2
ACENAPHTHYLENE	UG/L	<1.1	<1.1	<1.1	<1.1	<1.0	<1.3	<1.2	<1.0	<1.0	<1.1
ANTHRACENE	UG/L	<0.82	<0.84	<0.86	<0.82	<0.77	<1.0	<0.90	<0.77	<0.79	<0.87
BENZO(A)ANTHRACENE	UG/L	<1.3	<1.3	<1.3	<1.3	<1.2	<1.6	<1.4	<1.2	<1.2	<1.3
BENZO(A)PYRENE	UG/L	<1.0	<1.1	<1.1	<1.0	<0.97	<1.3	<1.1	<0.97	<1.0	<1.1
BENZO(B)FLUORANTHENE	UG/L	<0.98	<1.0	<1.0	<0.98	<0.92	<1.2	<1.1	<0.92	<0.95	<1.0
BENZO(G,H,I)PERYLENE	UG/L	<2.0	<2.0	<2.1	<2.0	<1.9	<2.5	<2.2	<1.9	<1.9	<2.1
BENZO(K)FLUORANTHENE	UG/L	<1.2	<1.2	<1.2	<1.2	<1.1	<1.4	<1.3	<1.1	<1.1	<1.2
BIS(2-CHLOROETHOXY)METHANE	UG/L	<0.81	<0.83	<0.85	<0.81	<0.76	<1.0	<0.89	<0.76	<0.78	<0.86
BIS(2-CHLOROETHYL)ETHER	UG/L	<0.77	<0.79	<0.81	<0.77	<0.73	<0.96	<0.85	<0.73	<0.75	<0.82
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	<1.1	<1.1	<1.1	<1.1	<1.0	36	<1.2	<1.0	49	39
BUTYLBENZYLPHTHALATE	UG/L	<1.2	<1.3	<1.3	<1.2	<1.2	<1.5	<1.3	<1.2	<1.2	<1.3
CARBAZOLE	UG/L	<1.0	<1.1	<1.1	<1.0	<0.96	<1.3	<1.1	<0.96	<0.99	<1.1
CHRYSENE	UG/L	<1.7	<1.7	<1.7	<1.7	<1.6	<2.1	<1.8	<1.6	<1.6	<1.8
DIBENZ(A,H)ANTHRACENE	UG/L	<1.9	<2.0	<2.0	<1.9	<1.8	<2.4	<2.1	<1.8	<1.9	<2.0
DIBENZOFURAN	UG/L	<0.84	<0.87	<0.88	<0.84	<0.79	<1.1	<0.92	<0.79	<0.82	<0.89
DIETHYLPHTHALATE	UG/L	<1.0	<1.1	<1.1	<1.0	<0.96	<1.3	<1.1	<0.96	<0.99	<1.1
DIMETHYLPHTHALATE	UG/L	<0.85	<0.87	<0.89	<0.85	<0.80	<1.1	<0.93	<0.80	<0.82	<0.90
DI-N-BUTYLPHTHALATE	UG/L	<0.98	<1.0	<1.0	<0.98	<0.92	<1.2	<1.1	<0.92	<0.95	<1.0
DI-N-OCTYLPHTHALATE	UG/L	<1.4	<1.5	<1.5	<1.4	<1.4	<1.8	<1.6	<1.4	<1.4	<1.5
FLUORANTHENE	UG/L	<1.4	<1.4	<1.4	<1.4	<1.3	<1.7	<1.5	<1.3	<1.3	<1.4
FLUORENE	UG/L	<0.88	<0.91	<0.93	<0.88	<0.83	<1.1	<0.97	<0.83	<0.85	<0.94
HEXACHLOROBENZENE	UG/L	<0.88 &	<0.90 &	<0.92 &	<0.88 &	<0.82 &	<1.1 &	<0.96 &	<0.82 &	<0.85 &	<0.93 &
HEXACHLOROBUTADIENE	UG/L	<2.8	<2.9	<2.9	<2.8	<2.6	<3.5	<3.1	<2.6	<2.7	<3.0
HEXACHLOROCYCLOPENTADIENE	UG/L	<1.1	<1.1	<1.2	<1.1	<1.1	<1.4	<1.2	<1.1	<1.1	<1.2

46

Table B4
Extraction Well Data Summary
July 2006
Lemberger Landfill and Lemberger Transport and Recycling Sites

		EW-01D 7/23/06	EW-03D 7/23/06	EW-03D DUP 7/23/06	EW-04D 7/23/06	EW-04I 7/23/06	EW-06D 7/23/06	EW-06S 7/23/06	EW-07D 7/23/06	EW-08D 7/23/06	EW-09D 7/23/06
SEMIVOLATILE ORGANICS (cont'd)											
HEXACHLOROETHANE	UG/L	<2.2	<2.3	<2.3	<2.2	<2.1	<2.8	<2.4	<2.1	<2.2	<2.4
INDENO(1,2,3-CD)PYRENE	UG/L	<0.66	<0.67	<0.69	<0.66	<0.62	<0.82	<0.72	<0.62	<0.63	<0.69
ISOPHORONE	UG/L	<0.66	<0.68	<0.69	<0.66	<0.62	<0.82	<0.72	<0.62	<0.64	<0.70
NAPHTHALENE	UG/L	<1.4	<1.4	<1.5	<1.4	<1.3	<1.7	<1.5	<1.3	<1.4	<1.5
NITROBENZENE	UG/L	<0.82	<0.85	<0.86	<0.82 N	<0.77	<1.0	<0.90	<0.77	<0.80	<0.87
N-NITROSODI-N-PROPYLAMINE	UG/L	<0.64	<0.66	<0.67	<0.64	<0.60	<0.80	<0.70	<0.60	<0.62	<0.68
N-NITROSODIPHENYLAMINE	UG/L	<4.5	<4.6	<4.7	<4.5	<4.2	<5.6	<4.9	<4.2	<4.4	<4.8
PENTACHLOROPHENOL	UG/L	<1.0	<1.1	<1.1	<1.0	<0.97	<1.3	<1.1	<0.97	<1.0	<1.1
PHENANTHRENE	UG/L	<0.73 &	<0.75 &	<0.76 &	<0.73 &	<0.68 &	<0.90 &	<0.79 &	<0.68 &	<0.70 &	<0.77 &
PHENOL	UG/L	<0.60 *	<0.62 *	<0.63 *	<0.60 *	<0.56 *	<0.75 *	<0.66 *	<0.56 *	<0.58 *	<0.63 *
PYRENE	UG/L	<0.96	<0.98	<1.0	<0.96	<0.90	<1.2	<1.0	<0.90	<0.93	<1.0
PESTICIDES AND PCBs											
4,4'-DDD	UG/L	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.016
4,4'-DDE	UG/L	<0.012	<0.012	<0.012	<0.011	<0.011	<0.012	<0.012	<0.012	<0.012	<0.014
4,4'-DDT	UG/L	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.016
ALDRIN	UG/L	<0.0069	<0.0070	<0.0069	<0.0068	<0.0067	<0.0069	<0.0069	<0.0070	<0.0069	<0.0084
ALPHA-BHC	UG/L	<0.0050	<0.0050	<0.0050	<0.0049	<0.0048	<0.0050	<0.0050	<0.0050	<0.0050	<0.0060
ALPHA-CHLORDANE	UG/L	<0.0059	<0.0060	<0.0059	<0.0058	<0.0058	<0.0059	<0.0059	<0.0060	<0.0059	<0.0072
AROCLOL-1016	UG/L	<0.25	<0.26	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.31
AROCLOL-1221	UG/L	<0.25	<0.26	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.31
AROCLOL-1232	UG/L	<0.25	<0.26	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.31
AROCLOL-1242	UG/L	<0.25	<0.26	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.31
AROCLOL-1248	UG/L	<0.25	<0.26	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.31
AROCLOL-1254	UG/L	<0.25	<0.26	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.31
AROCLOL-1260	UG/L	<0.25	<0.26	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.31
BETA-BHC	UG/L	<0.0052	<0.0053	<0.0052	<0.0051	<0.0051	<0.0052	<0.0052	<0.0053	<0.0052	<0.0064
DELTA-BHC	UG/L	<0.0054	<0.0055	<0.0054	<0.0053	<0.0053	0.0097 QP	<0.0054	<0.0055	<0.0054	<0.0066
DIELDRIN	UG/L	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	<0.015
ENDOSULFAN I	UG/L	<0.0054	<0.0055	<0.0054	<0.0053	<0.0053	<0.0054	<0.0054	<0.0055	<0.0054	<0.0066
ENDOSULFAN II	UG/L	<0.0091	<0.0093	<0.0091	<0.0090	<0.0089	<0.0091	<0.0091	<0.0092	<0.0091	<0.011
ENDOSULFAN SULFATE	UG/L	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	<0.015
ENDRIN	UG/L	<0.0087	<0.0089	<0.0087	<0.0086 *	<0.0085	<0.0087	<0.0087	<0.0088	<0.0087	<0.011
ENDRIN ALDEHYDE	UG/L	<0.010	<0.011	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.013
ENDRIN KETONE	UG/L	<0.0092 &	<0.0094 &	<0.0092 &	<0.0090 &	<0.0090 &	<0.0092 &	<0.0093 &	<0.0092 &	<0.011 &	
GAMMA-BHC (LINDANE)	UG/L	<0.0053	<0.0054	<0.0053	<0.0052	<0.0052	0.024 P	<0.0053	<0.0054	0.0068 QP	<0.0065
GAMMA-CHLORDANE	UG/L	<0.0052	<0.0053	<0.0052	<0.0051	<0.0051	<0.0052	<0.0052	<0.0053	<0.0052	<0.0064
HEPTACHLOR	UG/L	<0.0064	<0.0065	<0.0064	<0.0063	<0.0062	<0.0064	<0.0064	<0.0065	<0.0064	<0.0078
HEPTACHLOR EPOXIDE	UG/L	<0.0058	<0.0059	<0.0058	<0.0057	<0.0057	<0.0058	<0.0058	<0.0059	<0.0058	<0.0071
METHOXYCHLOR	UG/L	<0.065	<0.066	<0.065	<0.064	<0.063	<0.065	<0.065	<0.066	<0.065	<0.079
TOXAPHENE	UG/L	<0.48	<0.49	<0.48	<0.47	<0.47	<0.48	<0.48	<0.48	<0.48	<0.58

Notes:

Baseline MNA monitoring was conducted in July 2006.

Laboratory and data validation qualifier key in Table A5.

"--" = Not analyzed.

Table B-5
Laboratory and Data Validation Qualifiers
Lemberger Landfill Sites

LABORATORY QUALIFIERS		
QUALIFIER	FRACTION	DEFINITION
A	Inorganic	Analyte is detected in the method blank.
B	Inorganic	Analyte is detected in the method blank. The analyte is detected between the method detection limit and the reporting limit.
B	Organic	Analyte is detected in the method blank.
BB	Inorganic	BOD result is estimated due to the BOD blank exceeding the allowable oxygen depletion.
BI	Inorganic	BOD result is estimated due to insufficient oxygen depletion. Due to the 48-hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
DA	Inorganic	Dissolved analyte is greater than the total analyte; analysis passed QC based on precision criteria.
E	Inorganic	Analyte concentration exceeds the maximum linear Quantitation Limit of the instrument. Concentration is estimated due to matrix interferences.
E	Organic	Analyte concentration exceeds calibration range.
F	Inorganic	Due to potential interferences for this analysis by ICP techniques, this analyte has been confirmed by, and reported from, an alternate method.
F	Organic	Surrogate results are outside control limits.
H	Inorganic/ Organic	Extraction and/or analysis was performed past the holding time.
I	Inorganic	Concentration is estimated due to severe matrix interference.
J	Organic	Qualitative evidence of analyte is present: concentration detected is greater than the method detection limit but less than the reporting limit.
K	Inorganic	Sample was received unpreserved. Sample was either preserved at the time of receipt or at the time of sample preparation.
M	Inorganic	Elevated detection limit is due to matrix effects.
M	Organic	Sample pH was greater than two.
N	Inorganic/ Organic	Spiked sample recovery is not within control limits.
P	Organic	The relative percent difference between the two columns for detected concentrations was greater than 40%.
Q	Inorganic/ Organic	The analyte has been detected between the Limit of Detection (LOD) and the Limit of Quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.

Table B-5 (continued)
Laboratory and Data Validation Qualifiers
Lemberger Landfill Sites

LABORATORY QUALIFIERS		
QUALIFIER	FRACTION	DEFINITION
S	Inorganic	The reported value was determined by the Method of Standard Addition.
UN	Inorganic	Sample was not preserved to pH < 2.0.
W	Inorganic	Post-digestion spike was out of control limits.
W	Organic	Sample was received with headspace.
X	Inorganic/ Organic	See Sample Narrative.
1	Inorganic	Dissolved analyte or filtered analyte is greater than the total analyte; analysis passed QC based on precision criteria.
2	Inorganic	Dissolved analyte or filtered analyte is greater than the total analyte; analysis failed QC based on precision criteria.
8	Inorganic	BOD result is estimated due to complete oxygen depletion. Due to the 48-hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
#	Inorganic	Duplicate analyses are not within control limits.
&	Inorganic/ Organic	Laboratory Control Spike recovery is not within control limits.
*	Inorganic/ Organic	Duplicate analyses are not within control limits.
X	Inorganic/ Organic	See sample narrative for information related to these samples.

DATA VALIDATION QUALIFIERS		
b		Analyte is present in the associated trip blank.
f		Analyte is present in the associated field blank.
j		When specific QC criteria are outside the established control limits, the reported Quantitation Limit is approximate and may or may not represent the actual Limit of Quantitation necessary to accurately and precisely measure the analyte in the sample.
s		Analyte is present in the associated storage blank.
u		Analyte is present at less than 10 times the concentration in the associated trip, field, storage, and/or laboratory method blank (B) for common laboratory contaminants, or less than 5 times the blank concentration of other compounds and is therefore qualified as nondetectable (u) according to USEPA data validation procedures.

Note:

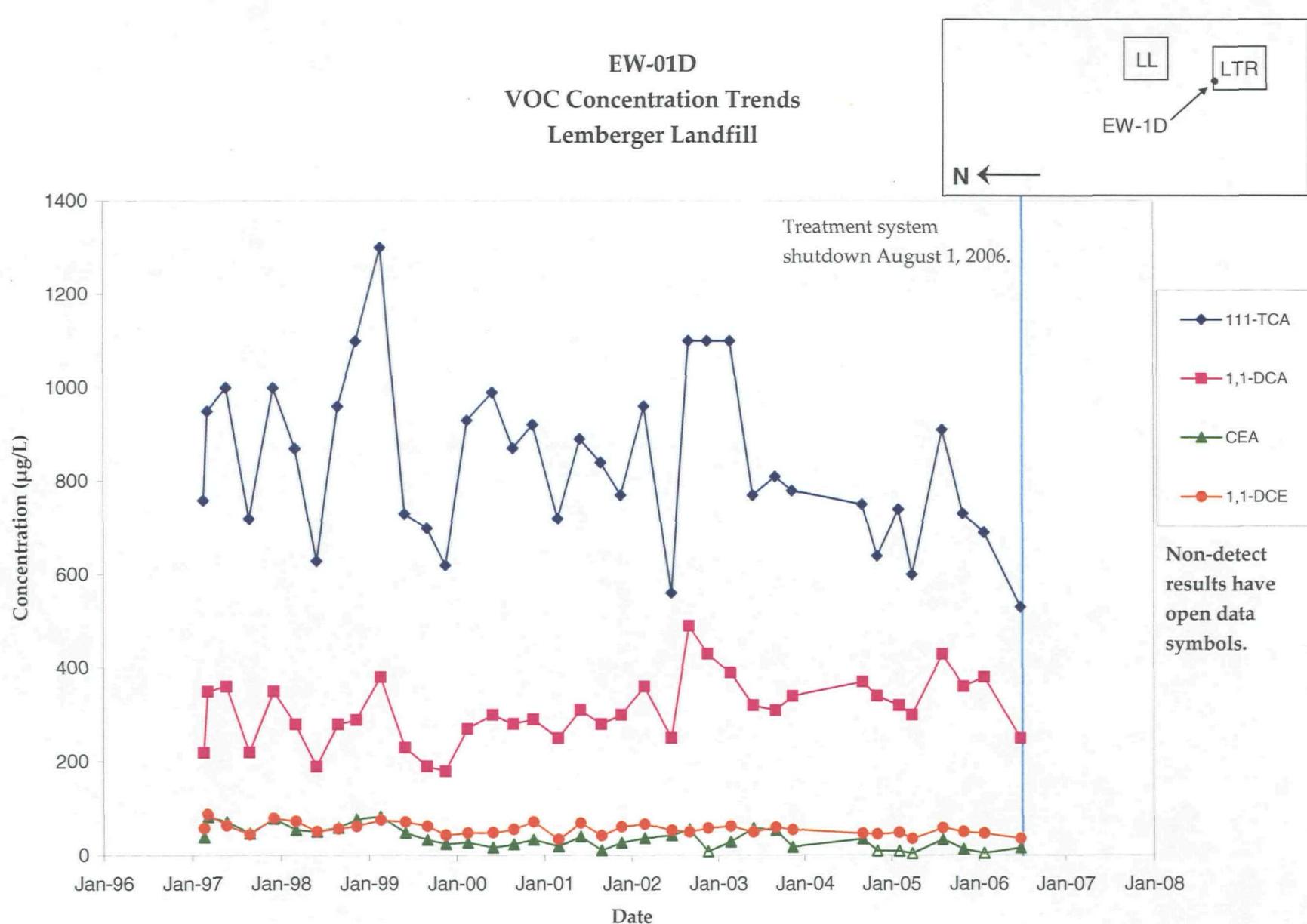
The definitions of laboratory flags have changed over time, and flags may have different definitions for inorganic versus organic analyses. The above table represents the most comprehensive list of definitions available for the Lemberger site historical data.

APPENDIX C

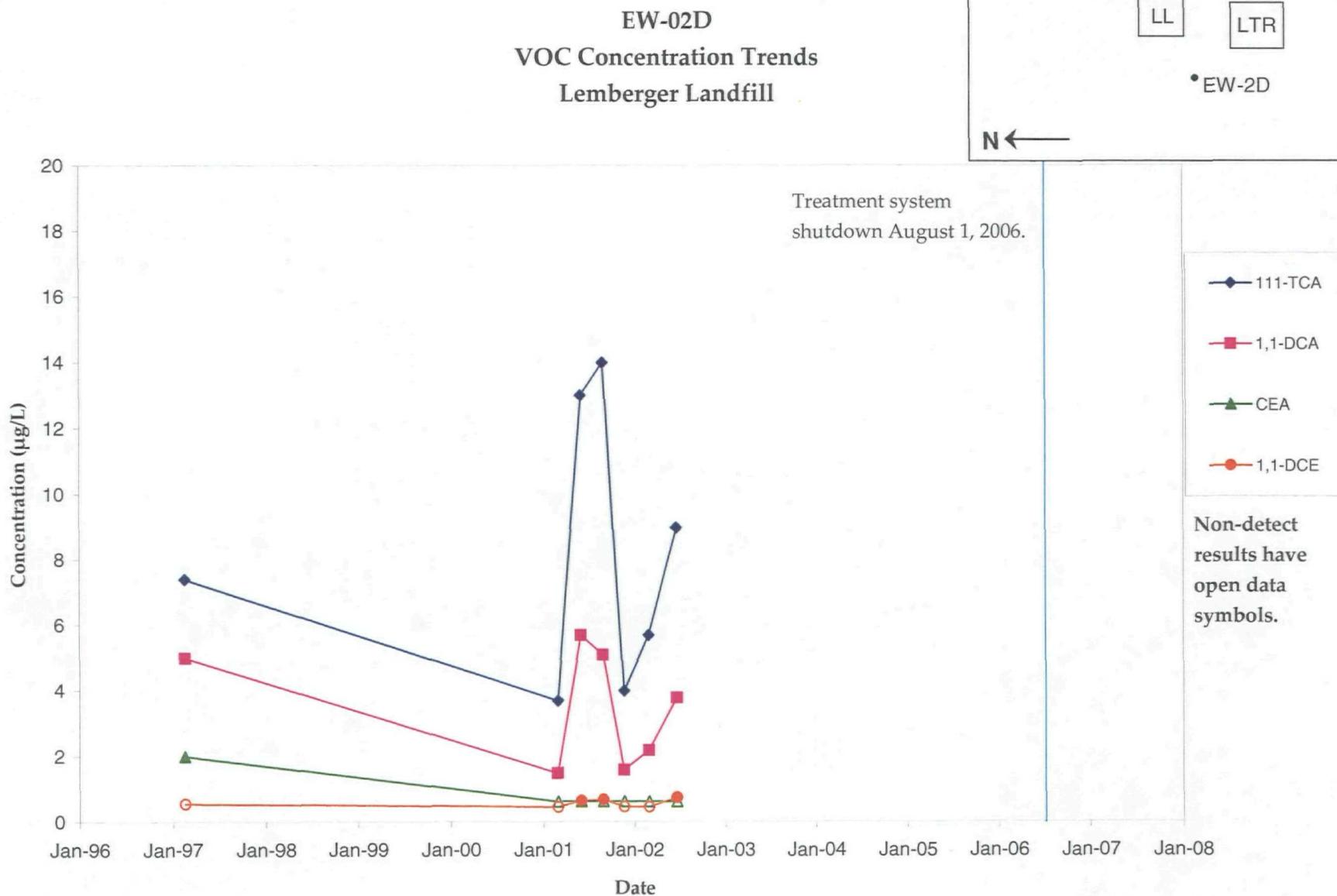
Appendix C

VOC Trend Plots and

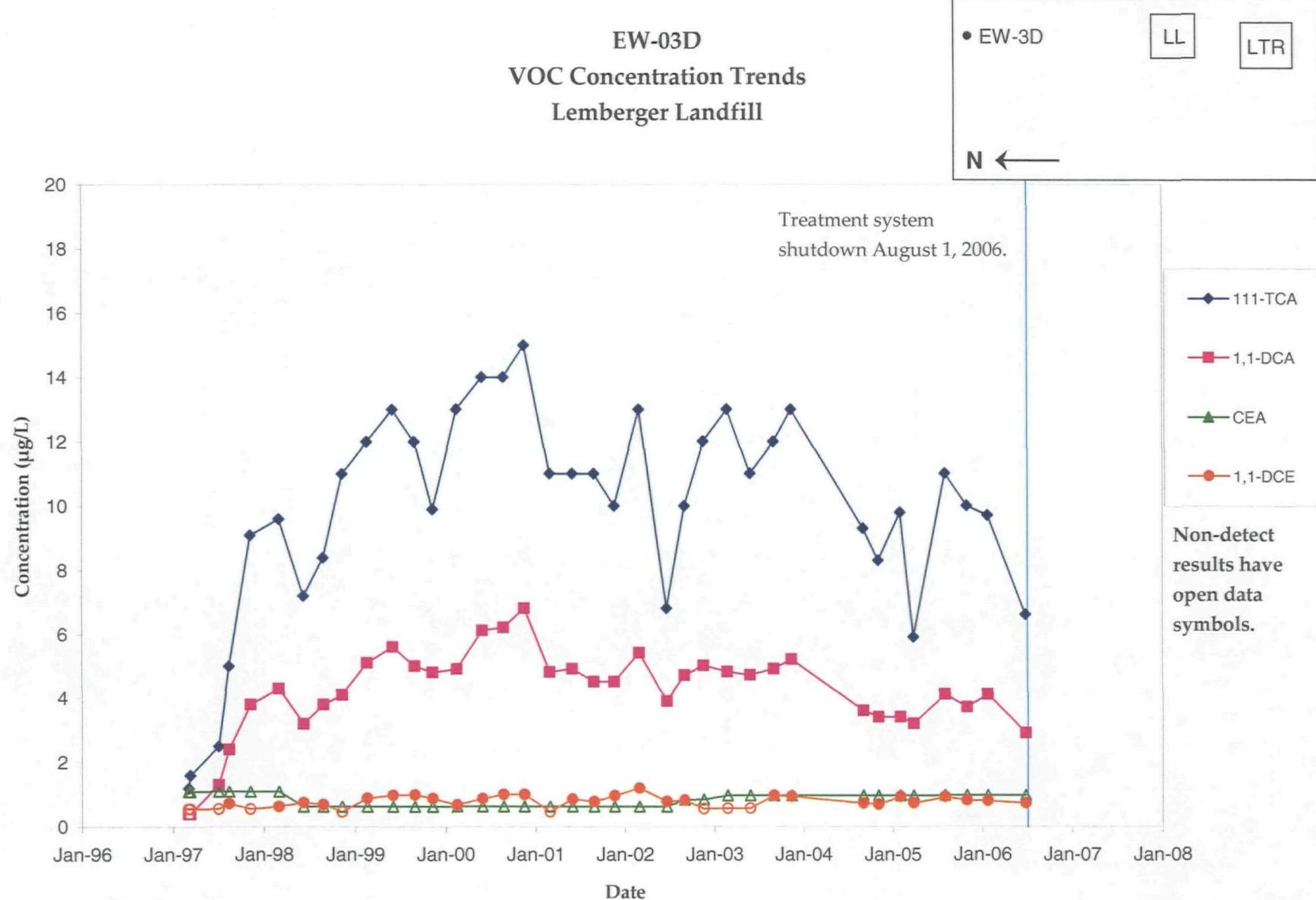
Upper Confidence Limit (UCL) Calculations



L9//

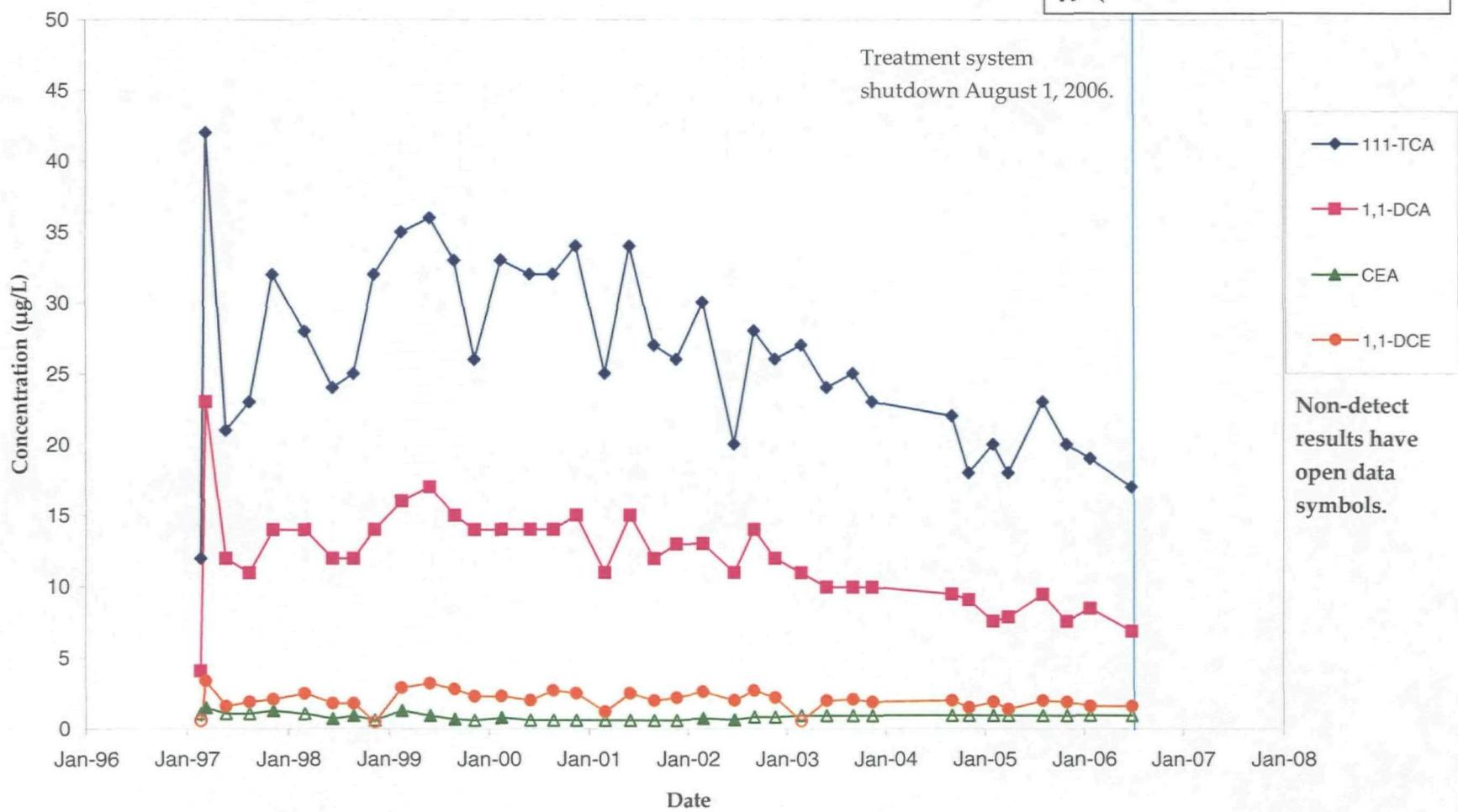
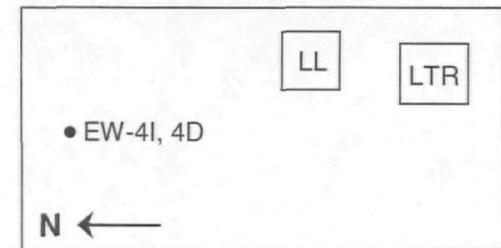


EW-03D
VOC Concentration Trends
Lemberger Landfill



W

EW-04D
VOC Concentration Trends
Lemberger Landfill



EW-04I
VOC Concentration Trends
Lemberger Landfill

LL LTR

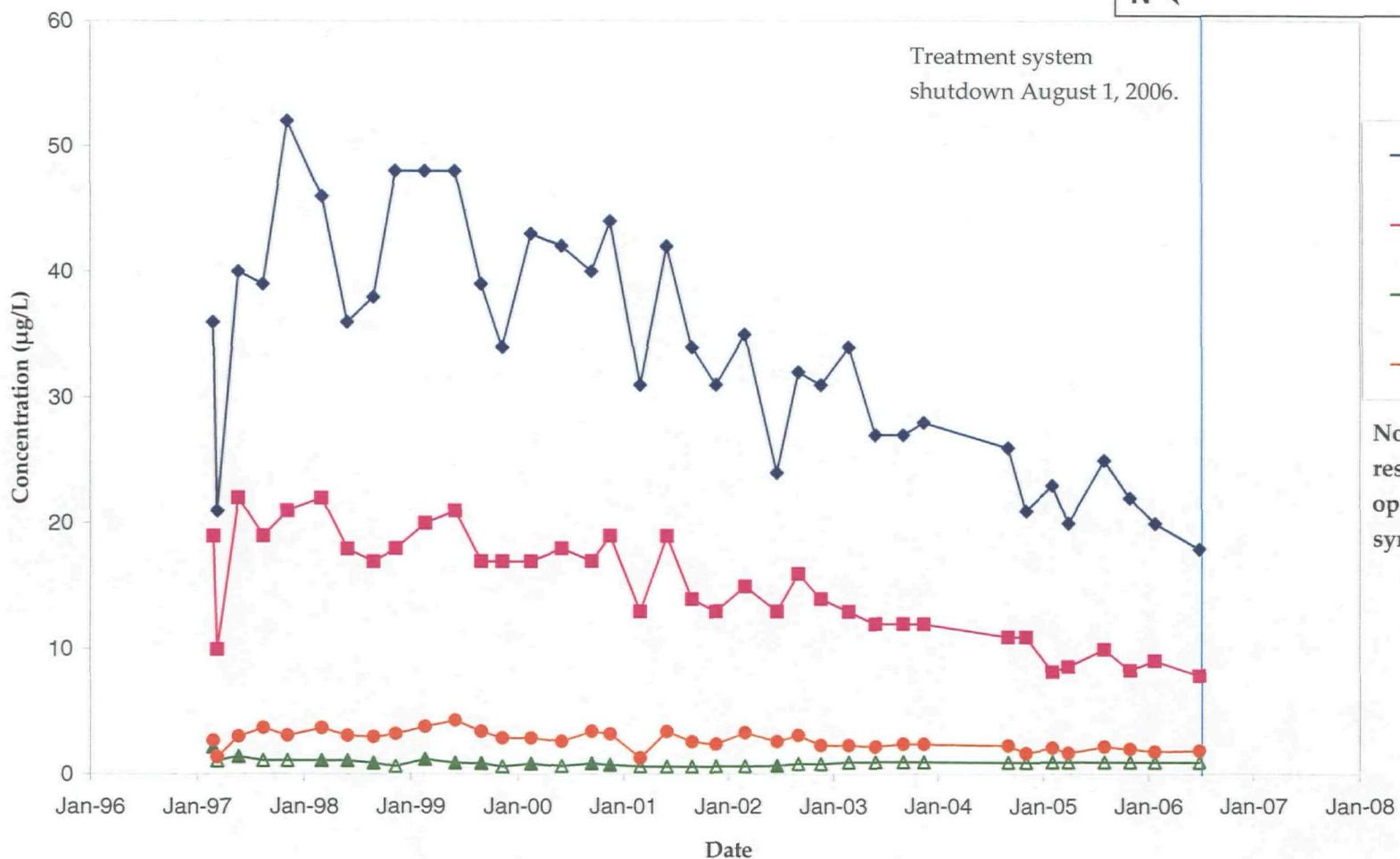
• EW-4I, 4D

N ←

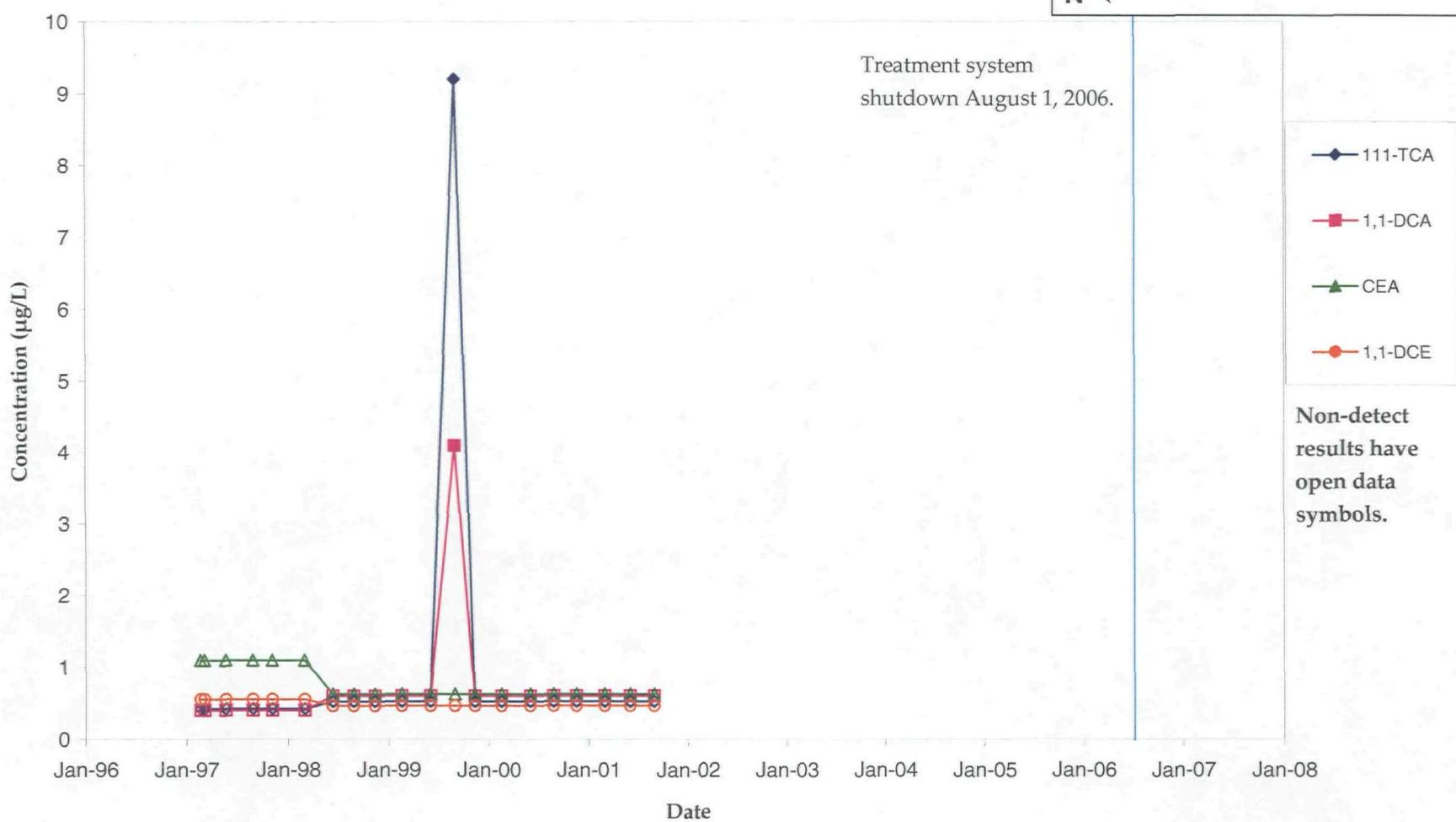
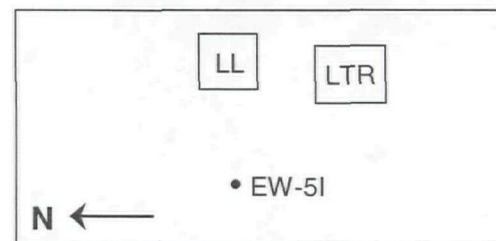
Treatment system
shutdown August 1, 2006.

- 111-TCA
- 1,1-DCA
- CEA
- 1,1-DCE

Non-detect
results have
open data
symbols.



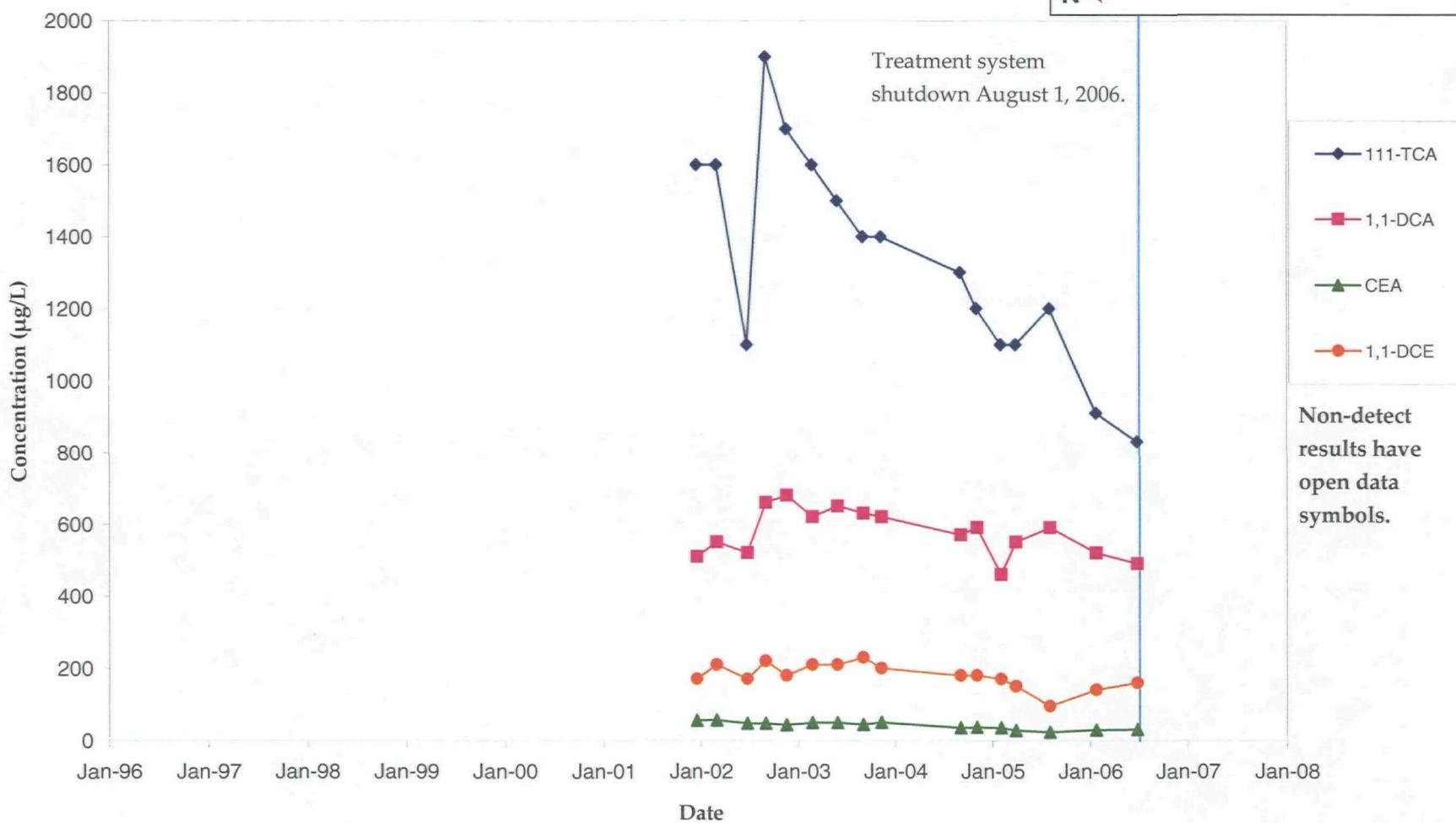
EW-05I
VOC Concentration Trends
Lemberger Landfill



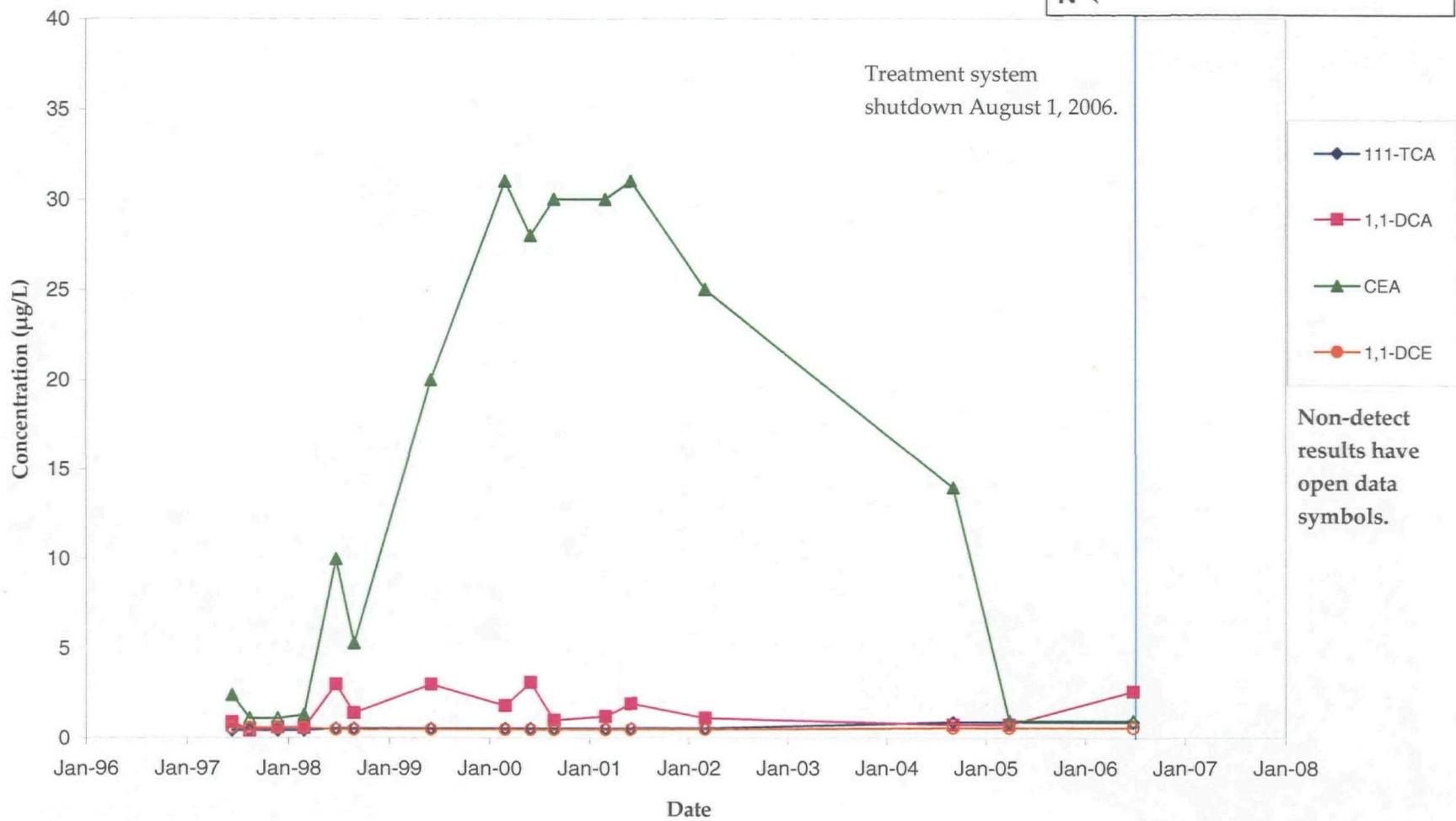
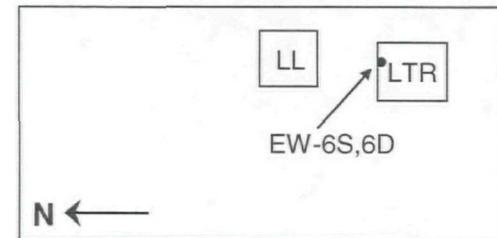
EW-06D
VOC Concentration Trends
Lemberger Landfill

LL
LTR
EW-6S,6D

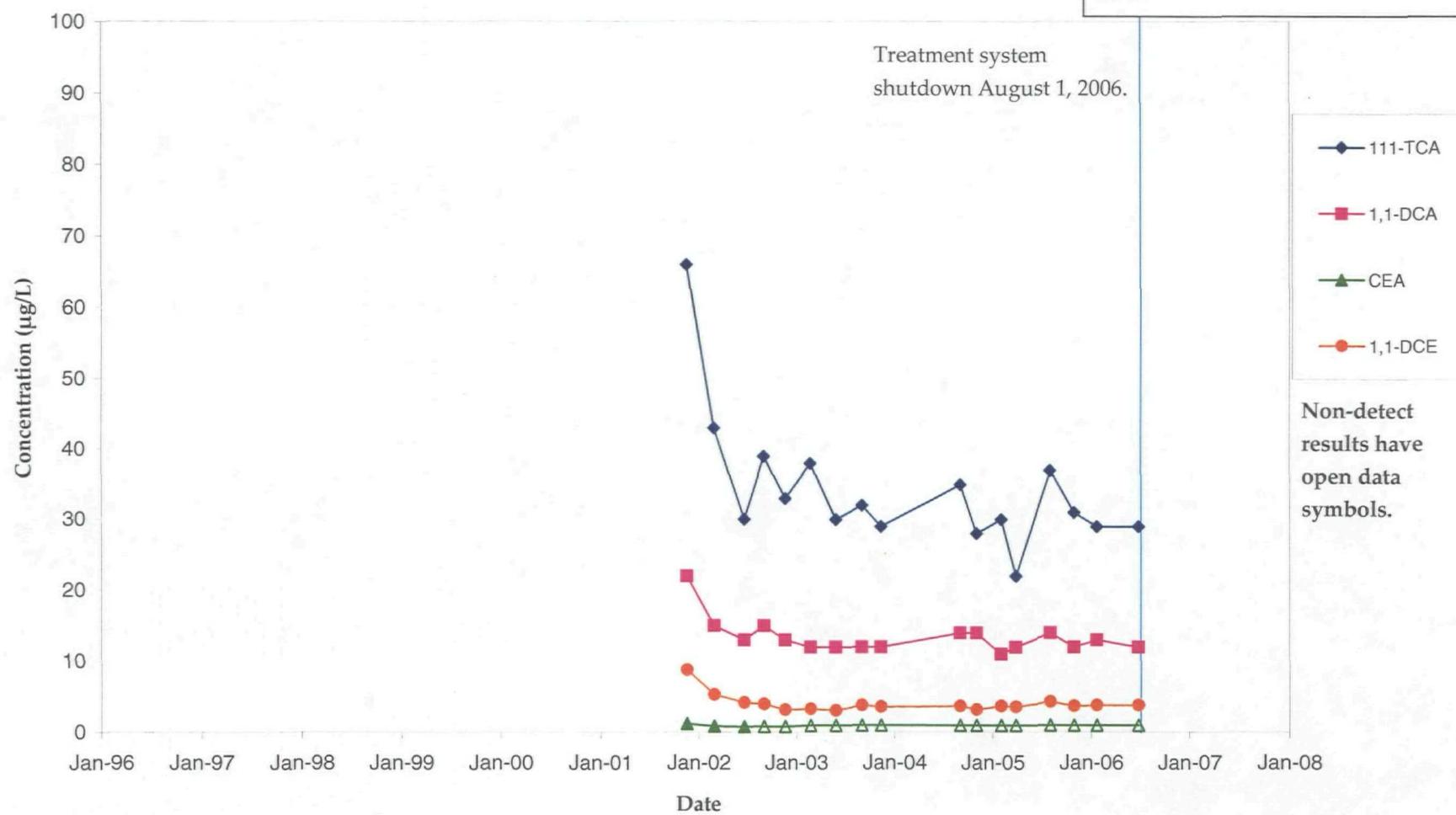
N ←



EW-06S
VOC Concentration Trends
Lemberger Landfill



EW-07D
VOC Concentration Trends
Lemberger Landfill



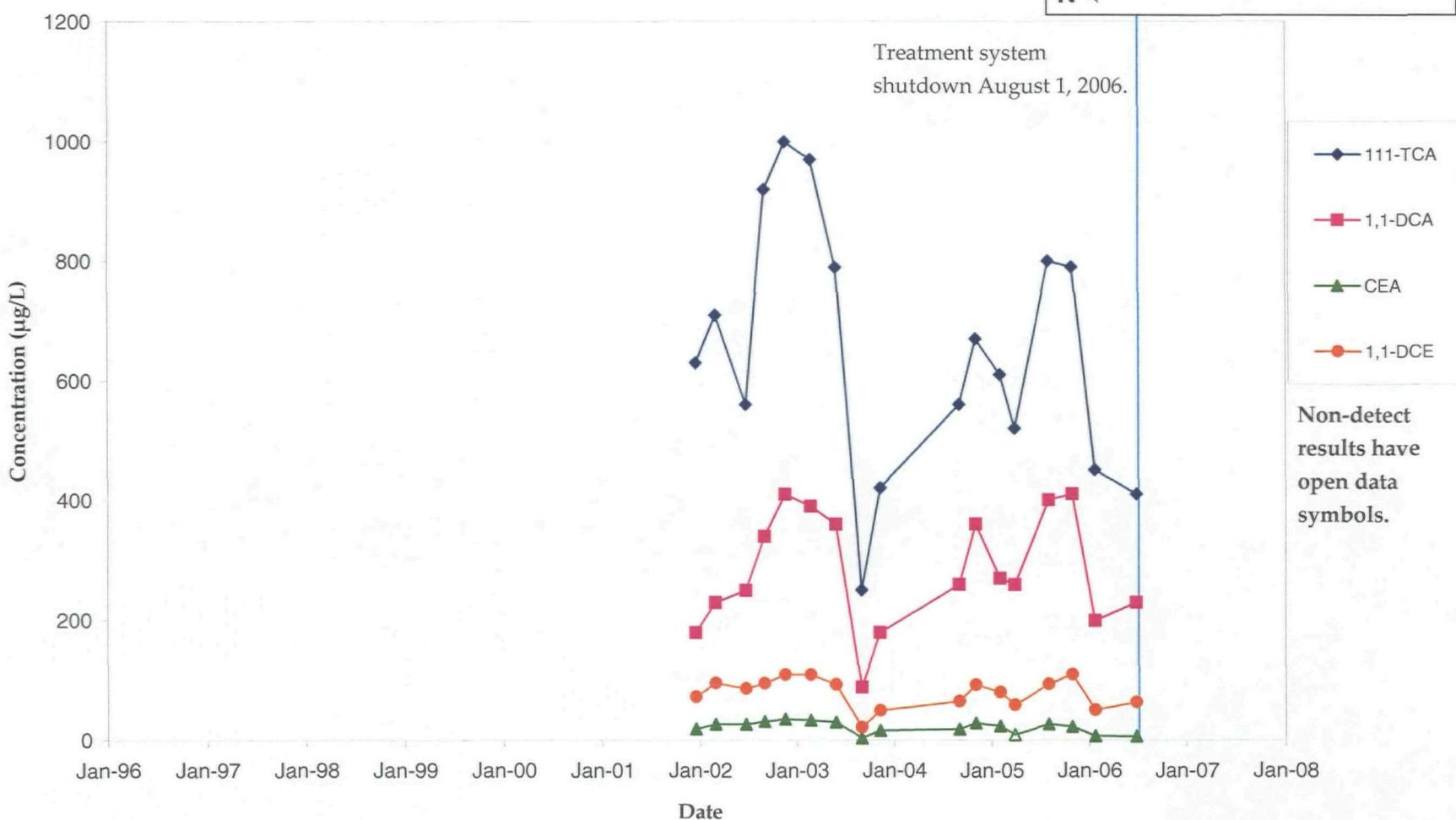
EW-08D

VOC Concentration Trends Lemberger Landfill

EW-8D

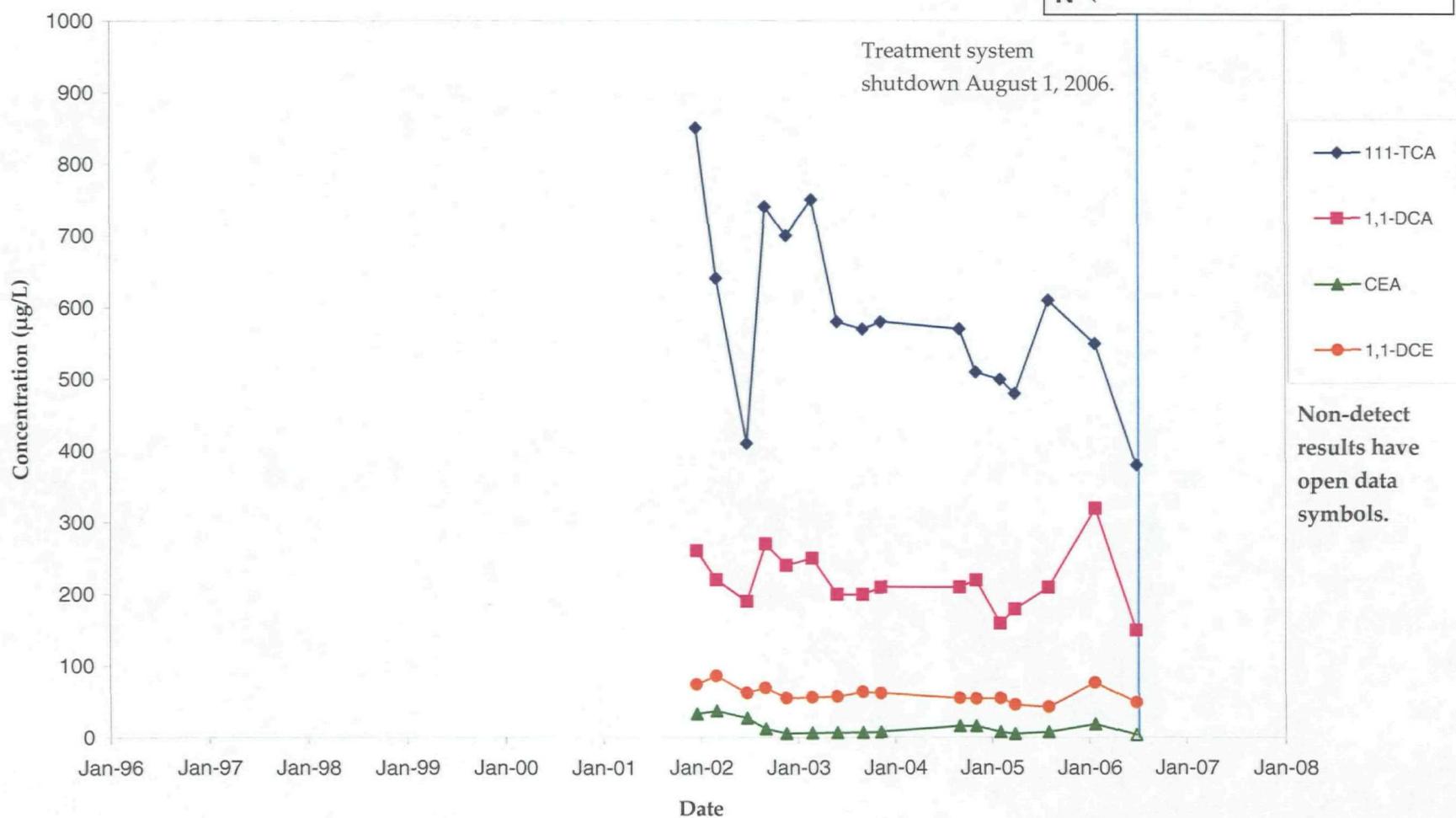
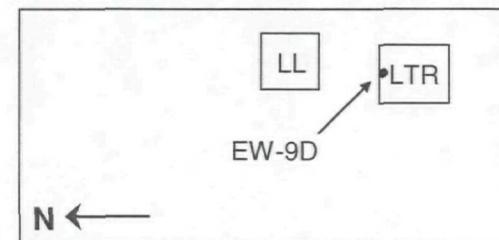
PLTF

2

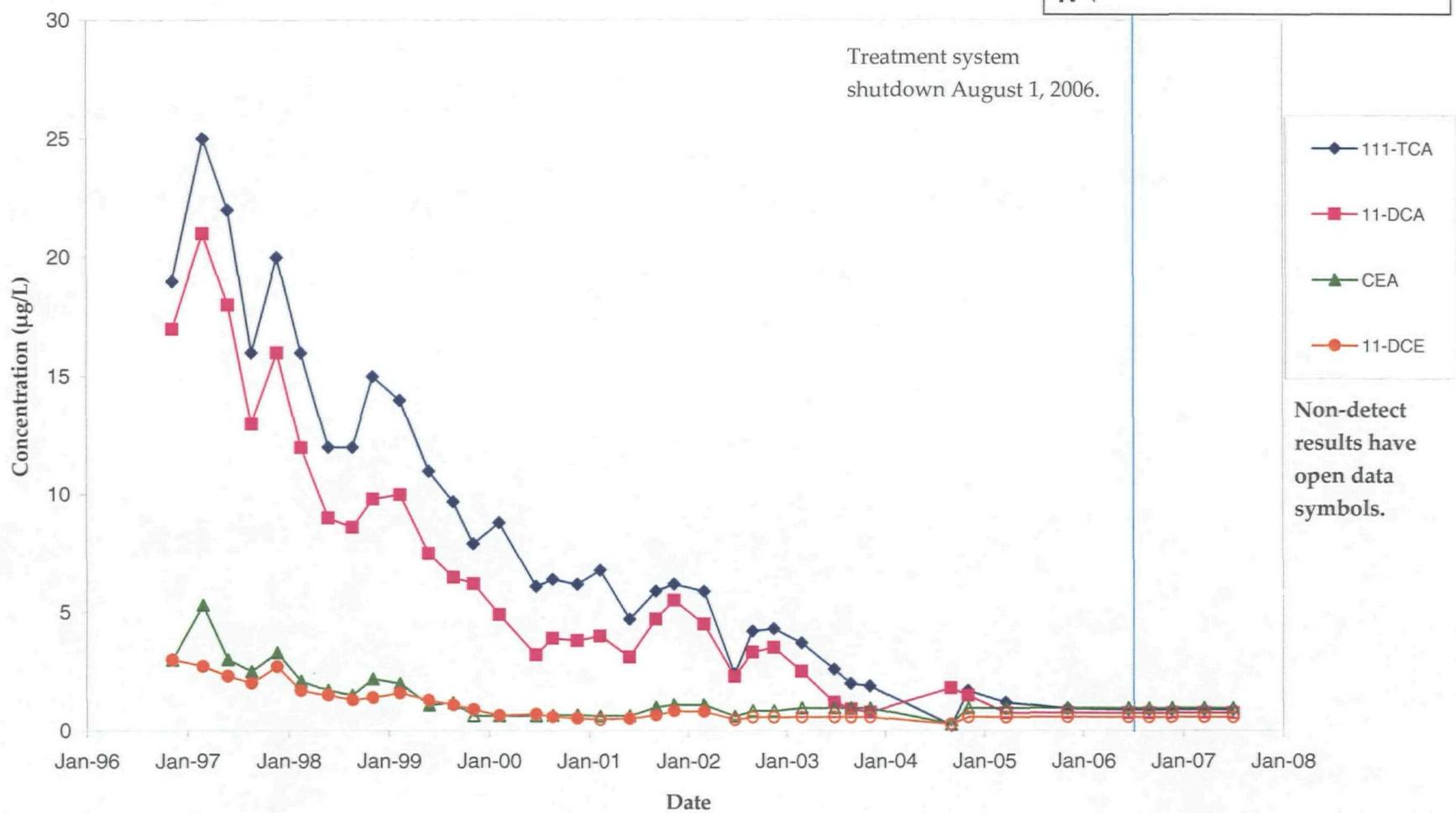
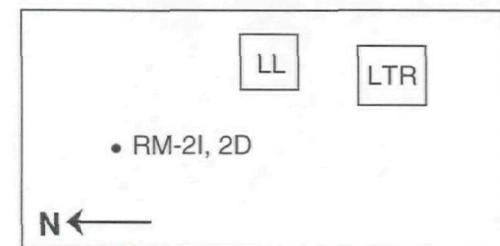


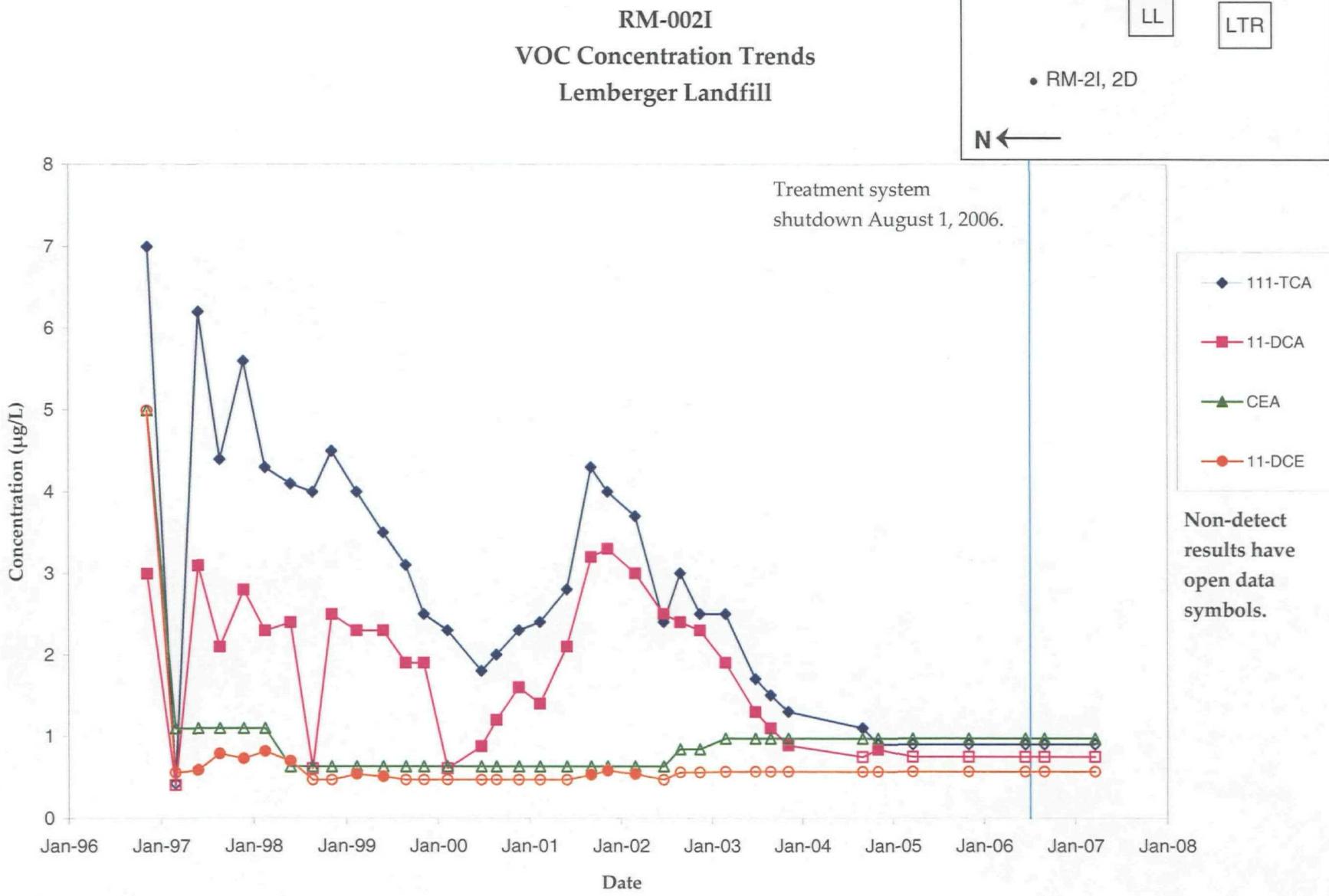
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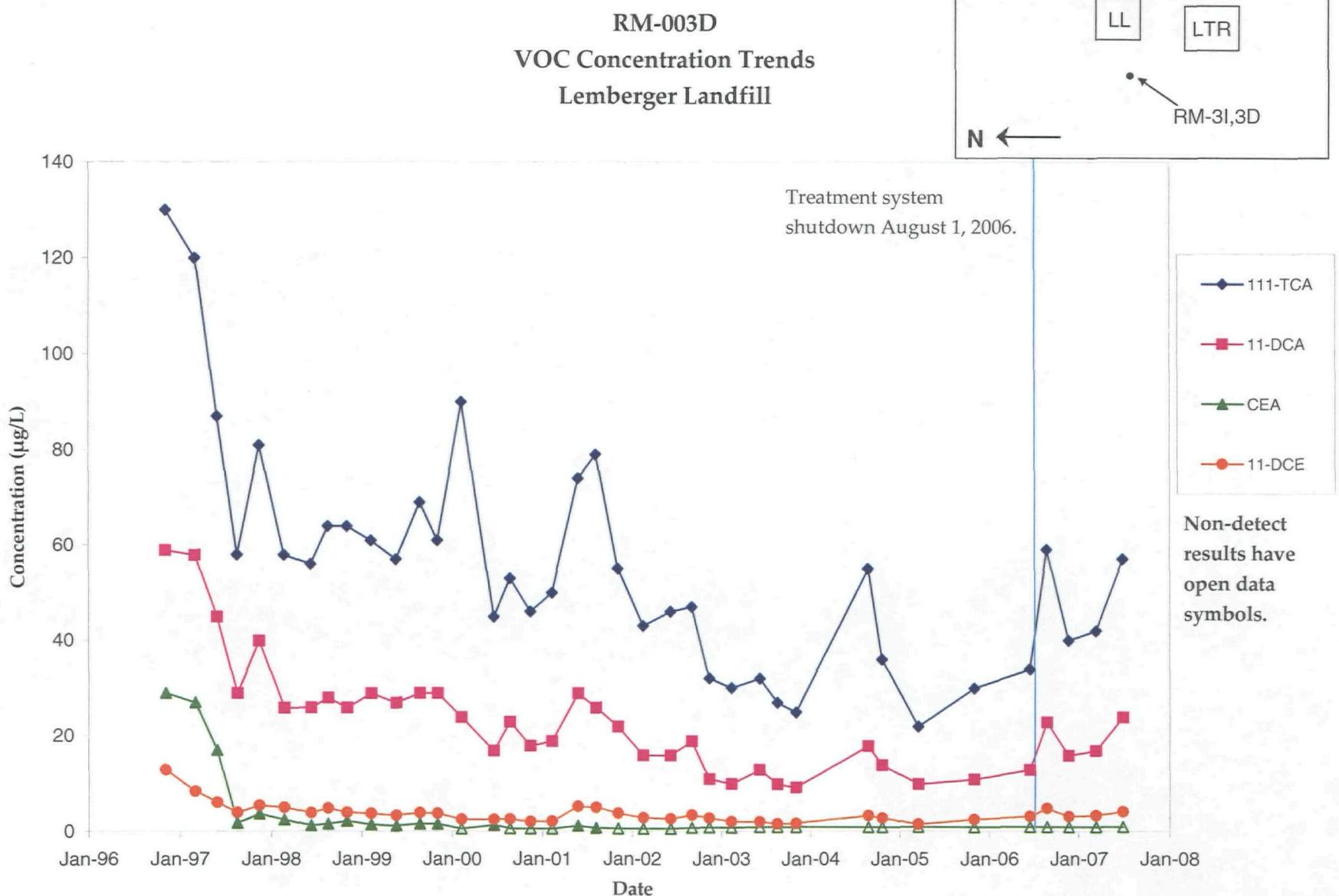
EW-09D
VOC Concentration Trends
Lemberger Landfill



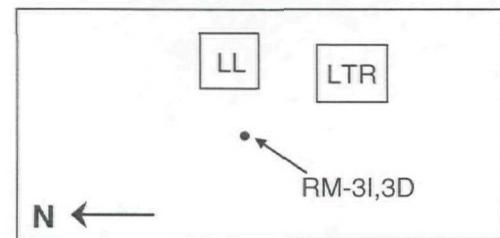
RM-002D
VOC Concentration Trends
Lemberger Landfill



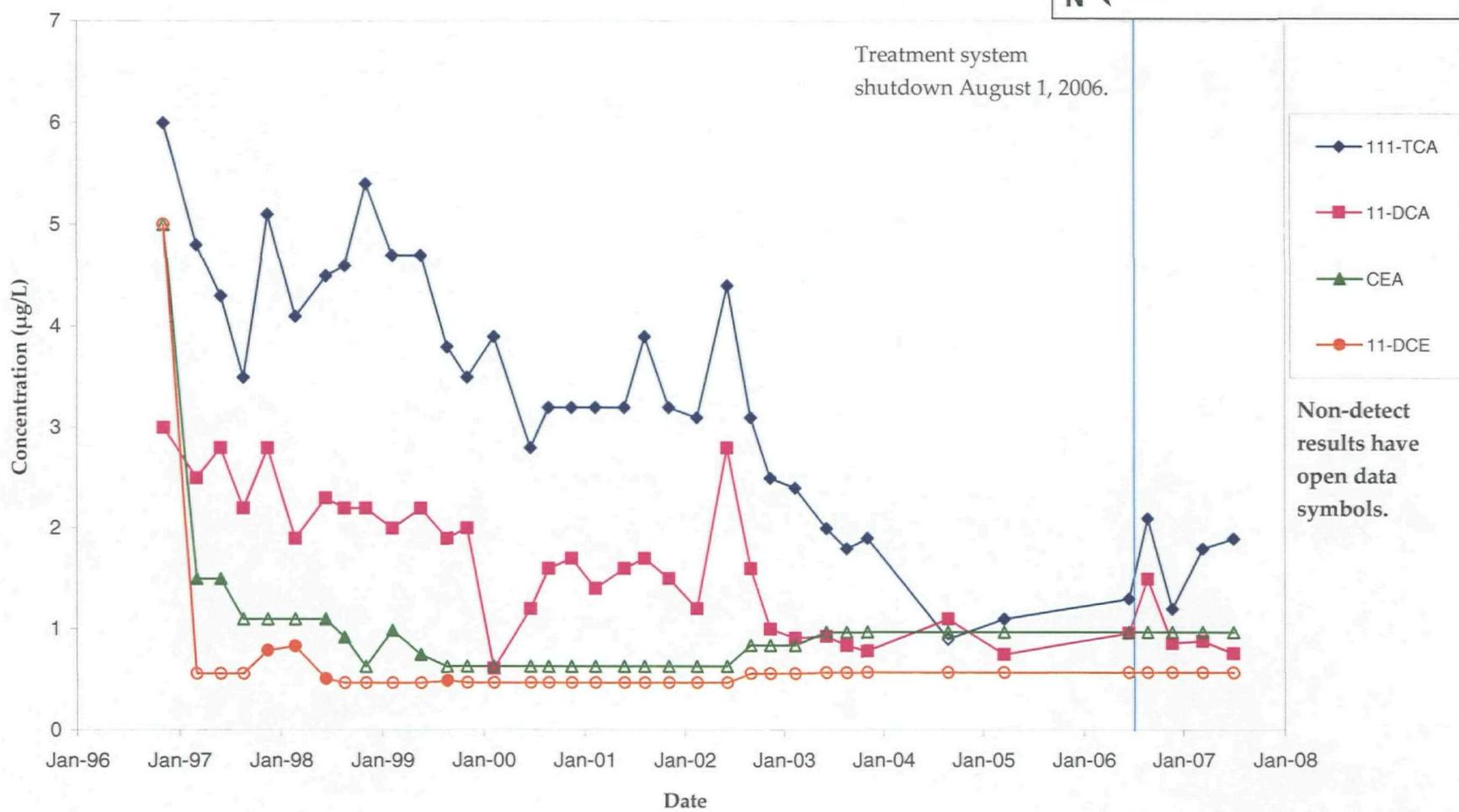




RM-003I
VOC Concentration Trends
Lemberger Landfill



Treatment system
shutdown August 1, 2006.



51

RM-004D
VOC Concentration Trends
Lemberger Landfill

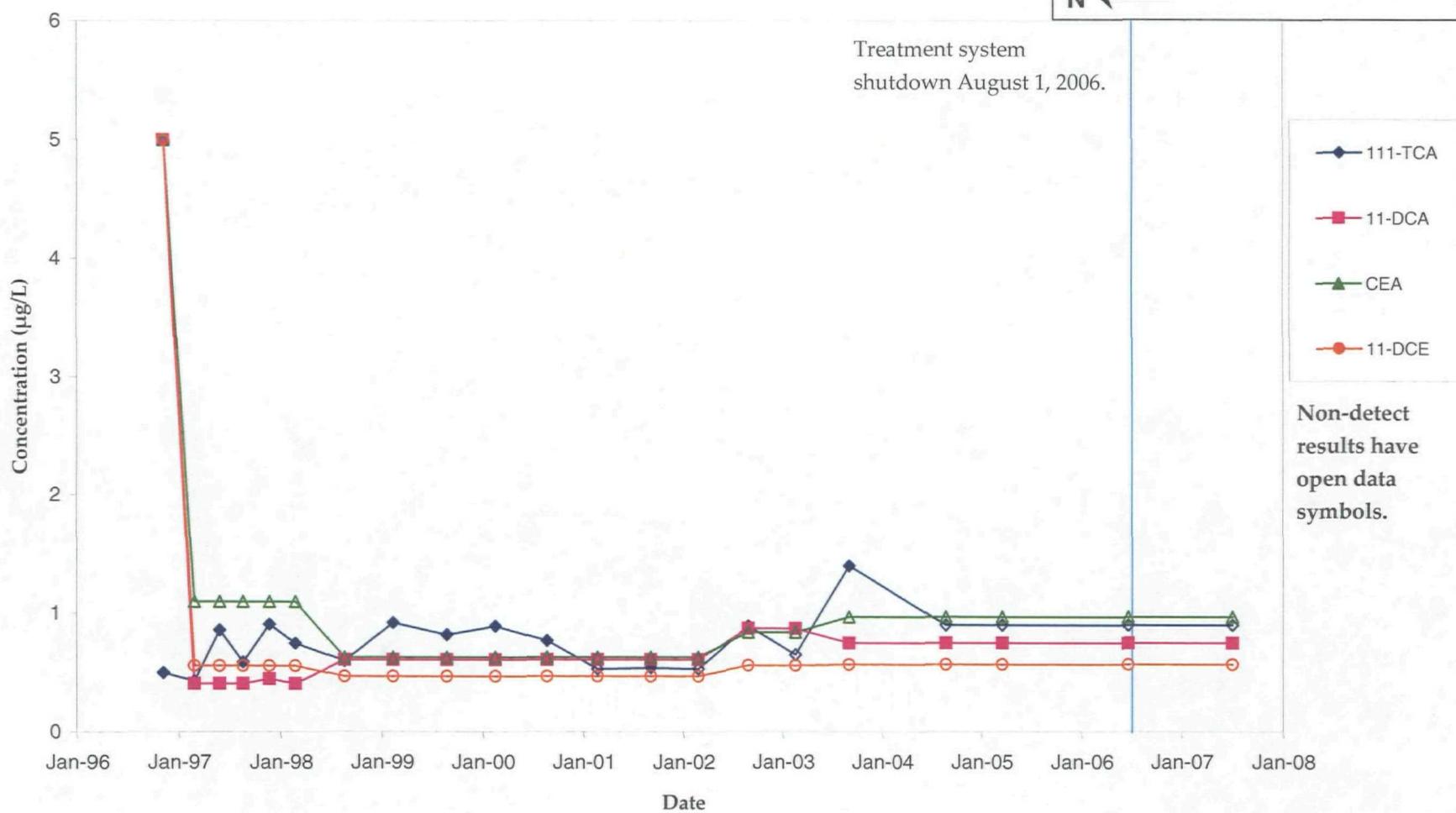
RM-4S, 4D

LL

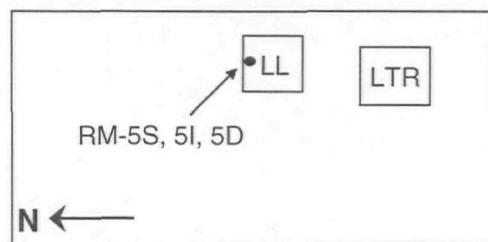
LTR

N ←

Treatment system
shutdown August 1, 2006.



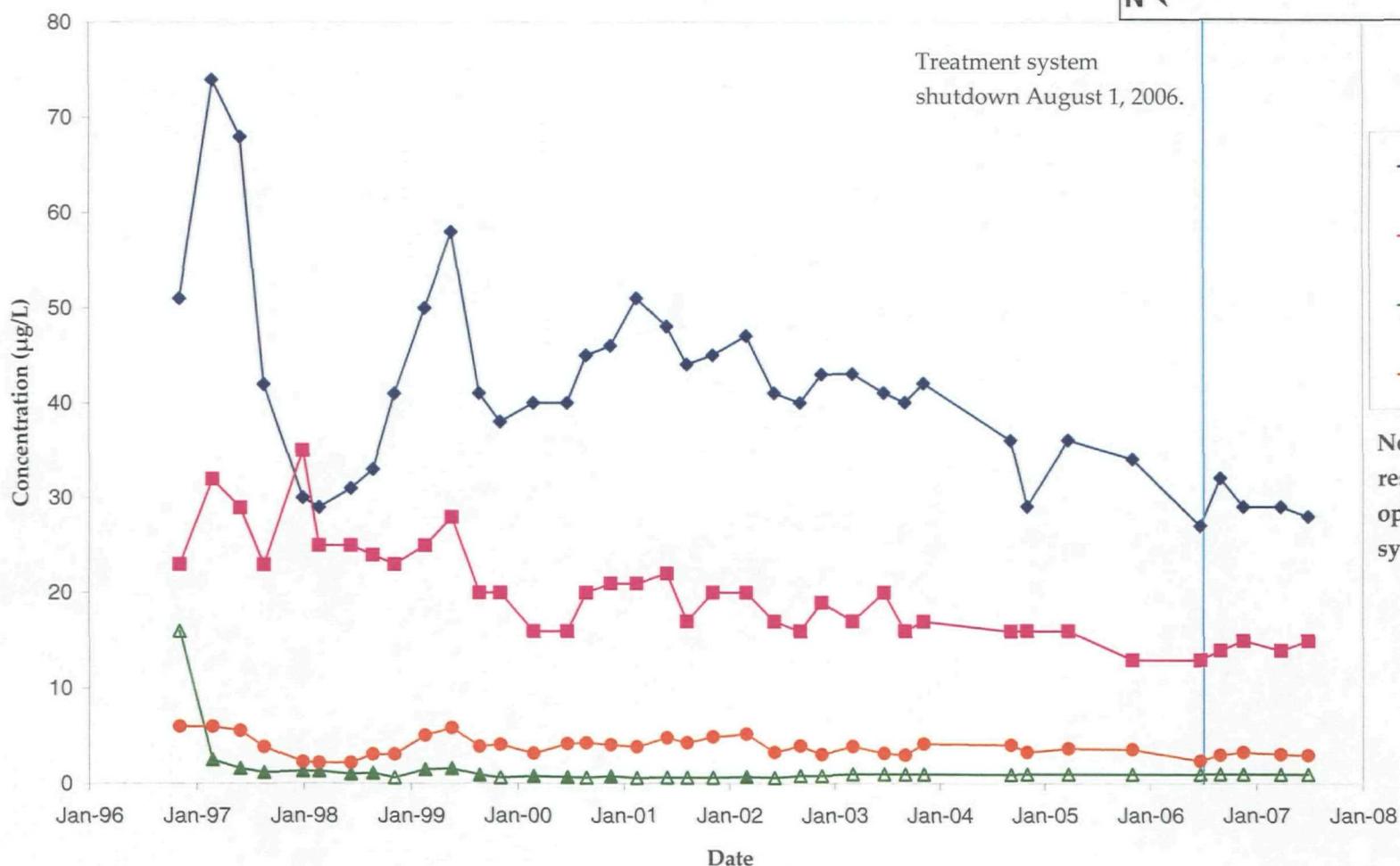
RM-005D
VOC Concentration Trends
Lemberger Landfill



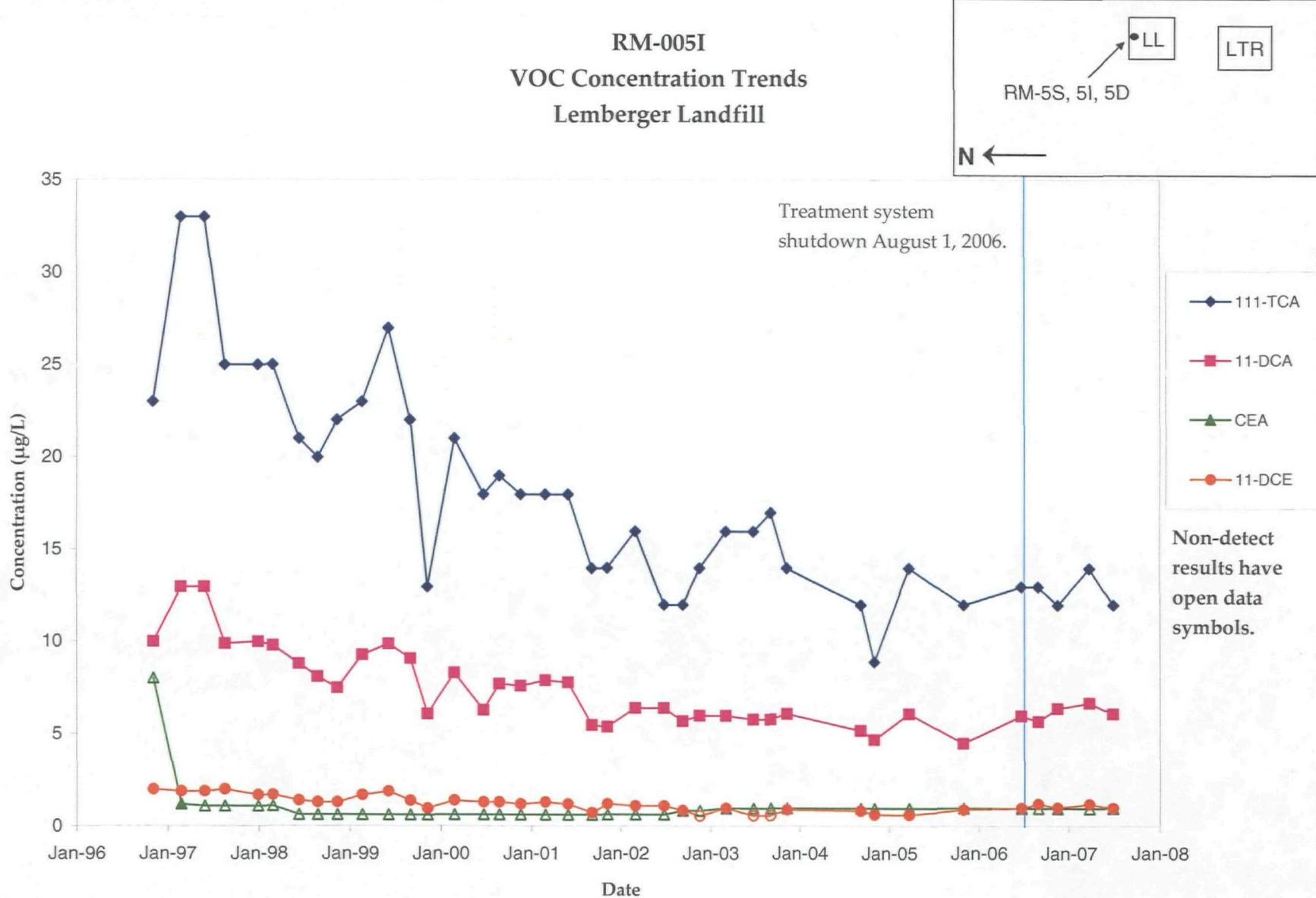
Treatment system
shutdown August 1, 2006.

- 111-TCA
- 11-DCA
- ▲ CEA
- 11-DCE

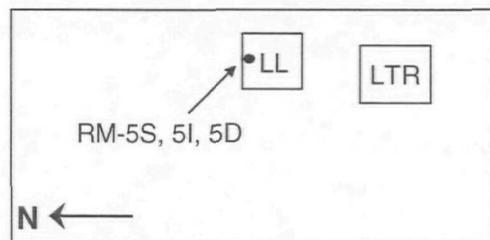
Non-detect
results have
open data
symbols.



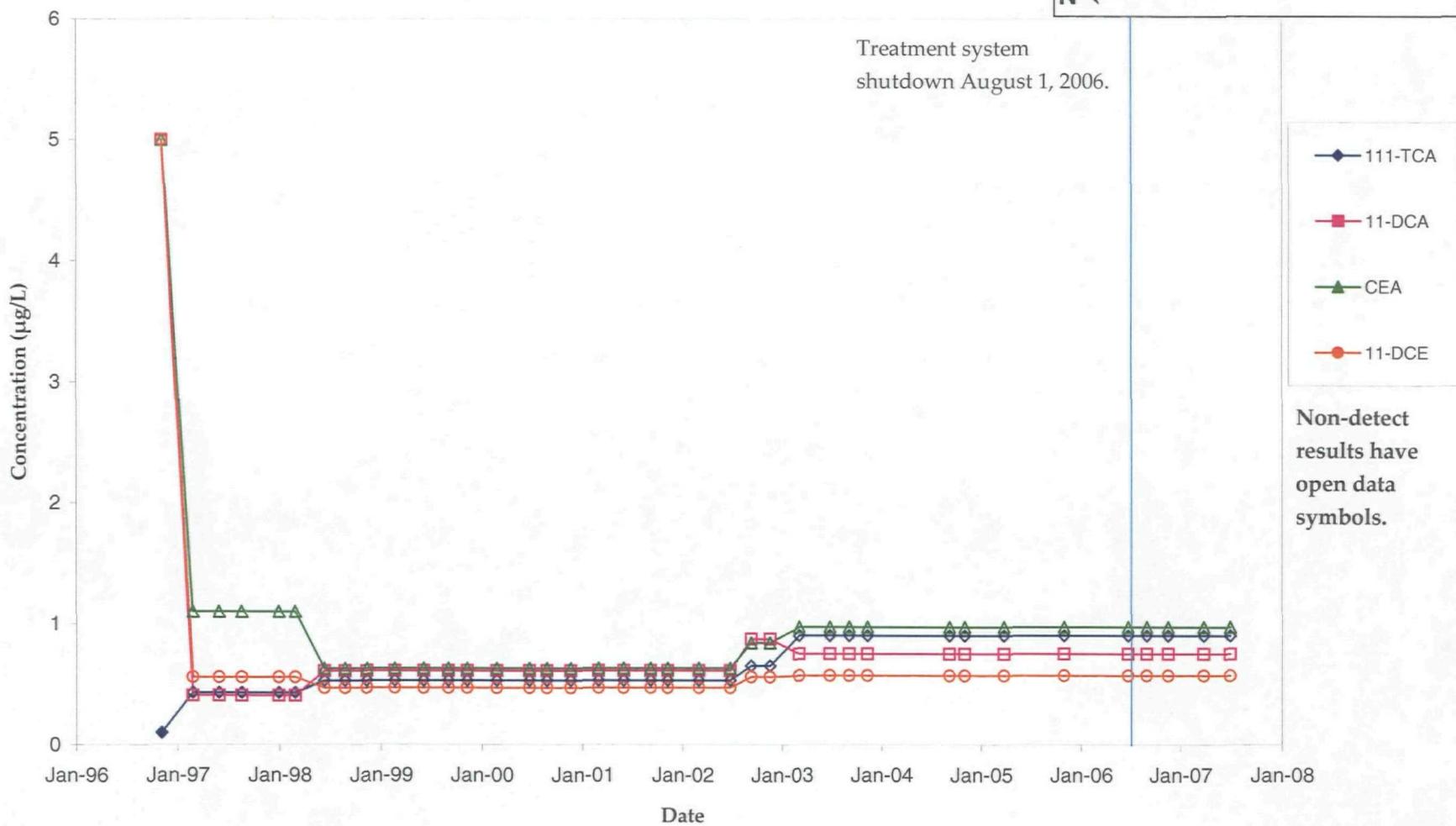
RM-005I
VOC Concentration Trends
Lemberger Landfill



RM-005S
VOC Concentration Trends
Lemberger Landfill

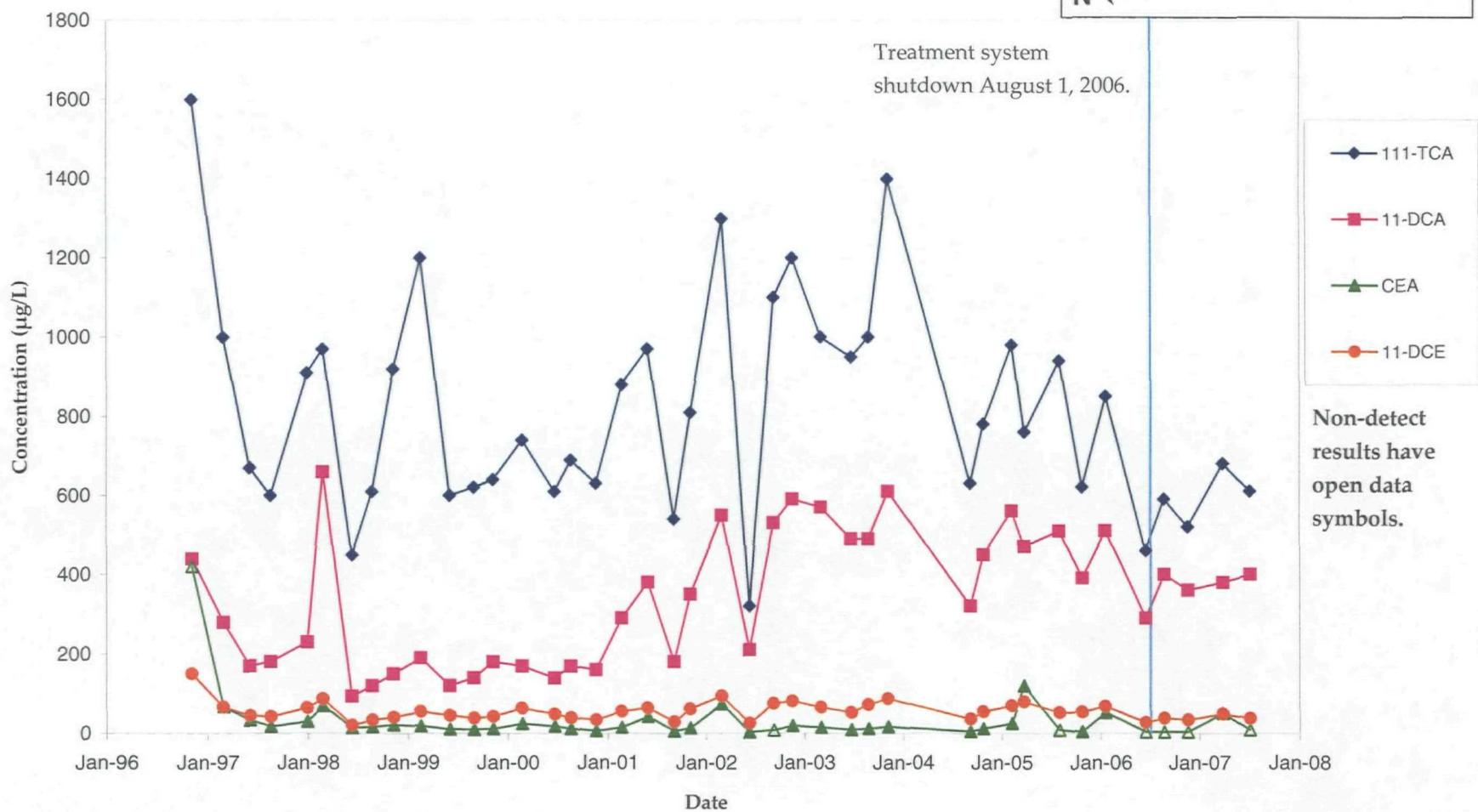
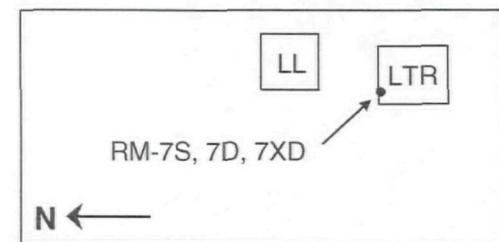


Treatment system
shutdown August 1, 2006.



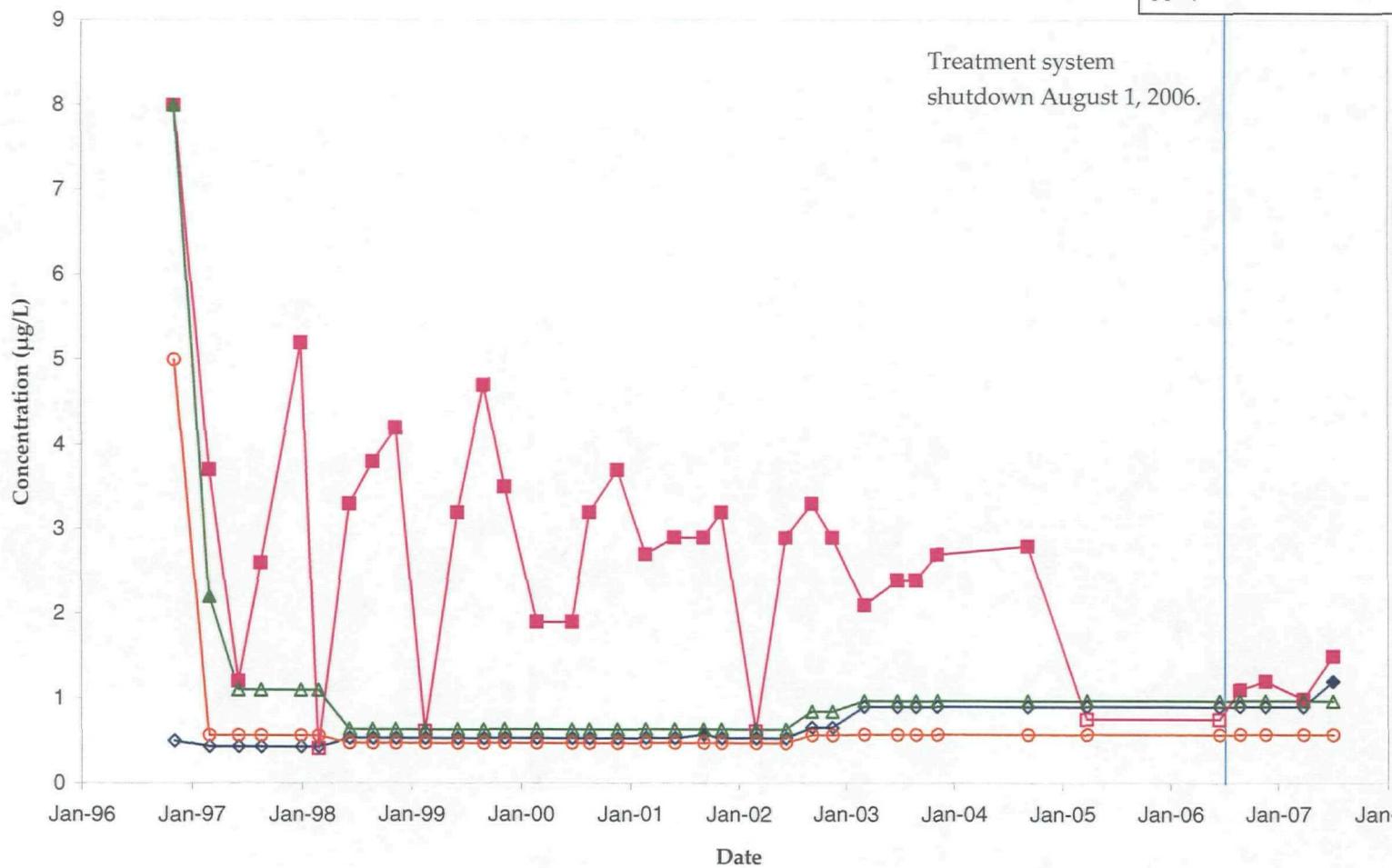
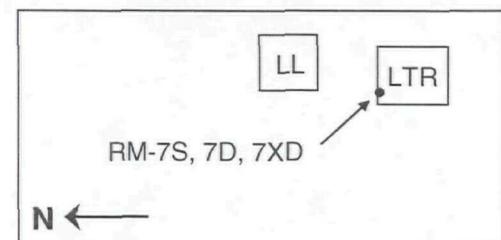
b

RM-007D
VOC Concentration Trends
Lemberger Landfill

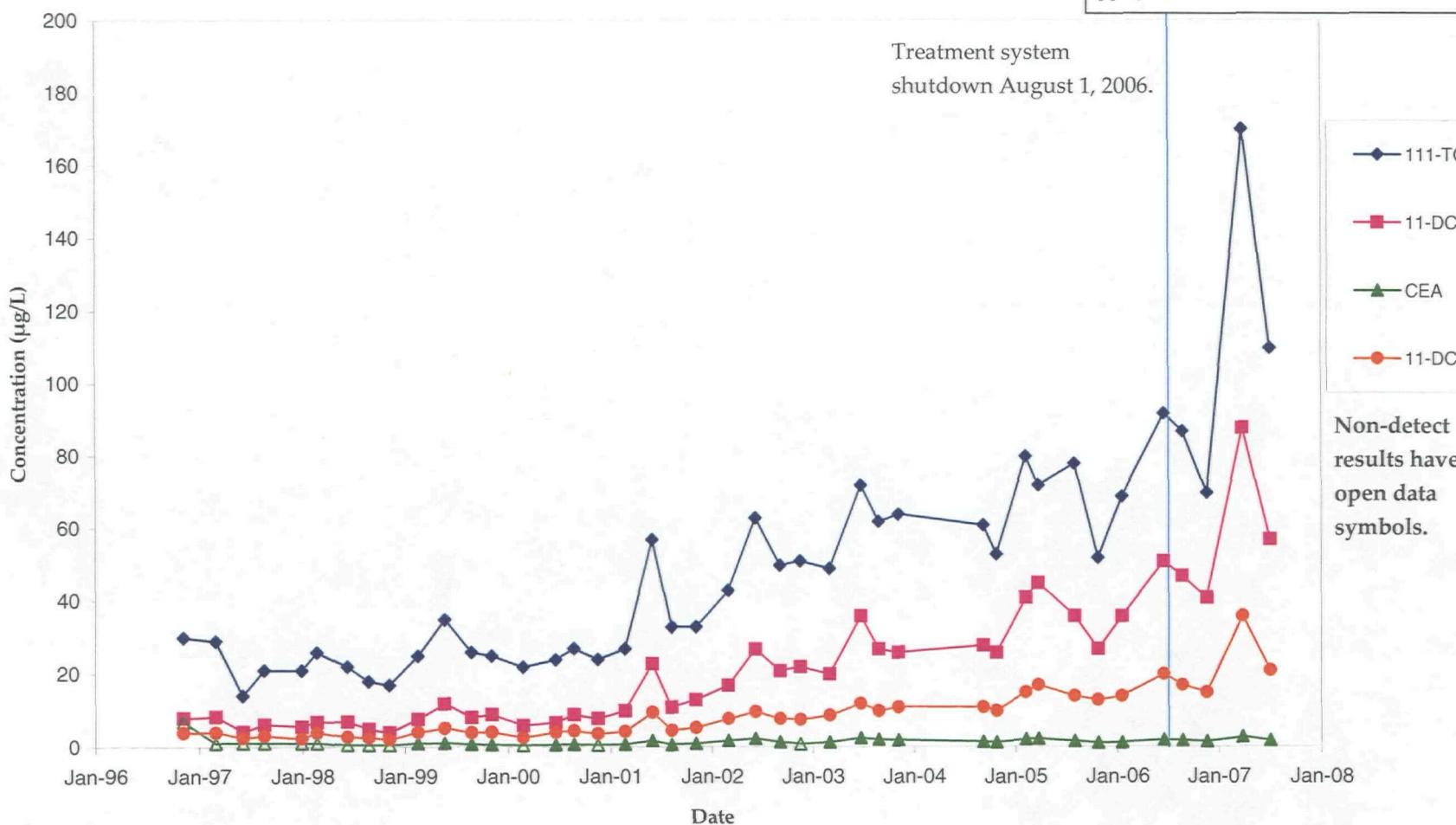


02

RM-007S
VOC Concentration Trends
Lemberger Landfill

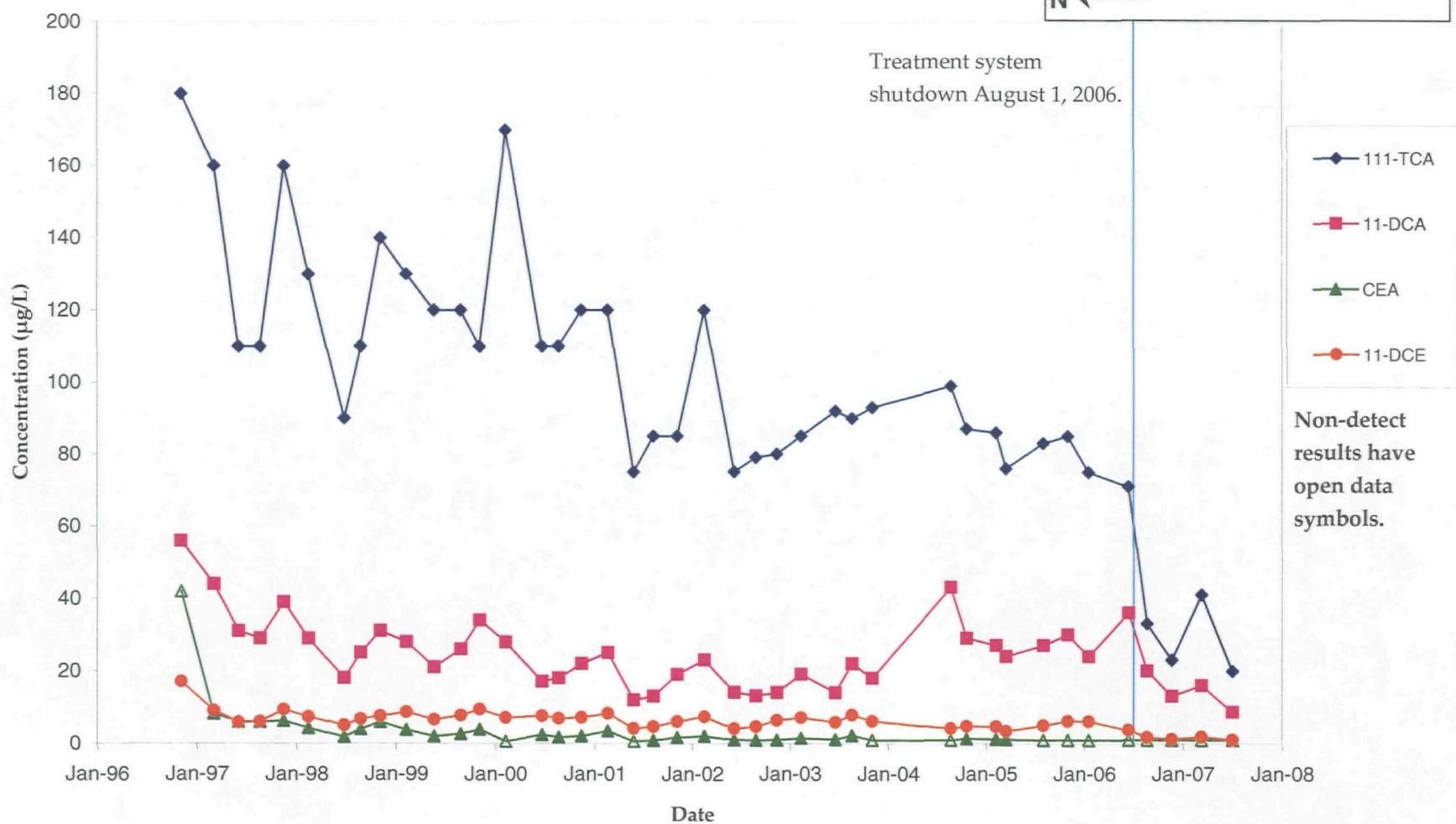


RM-007XD
VOC Concentration Trends
Lemberger Landfill

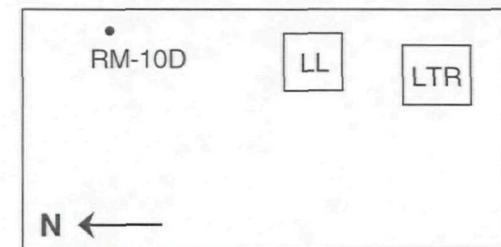
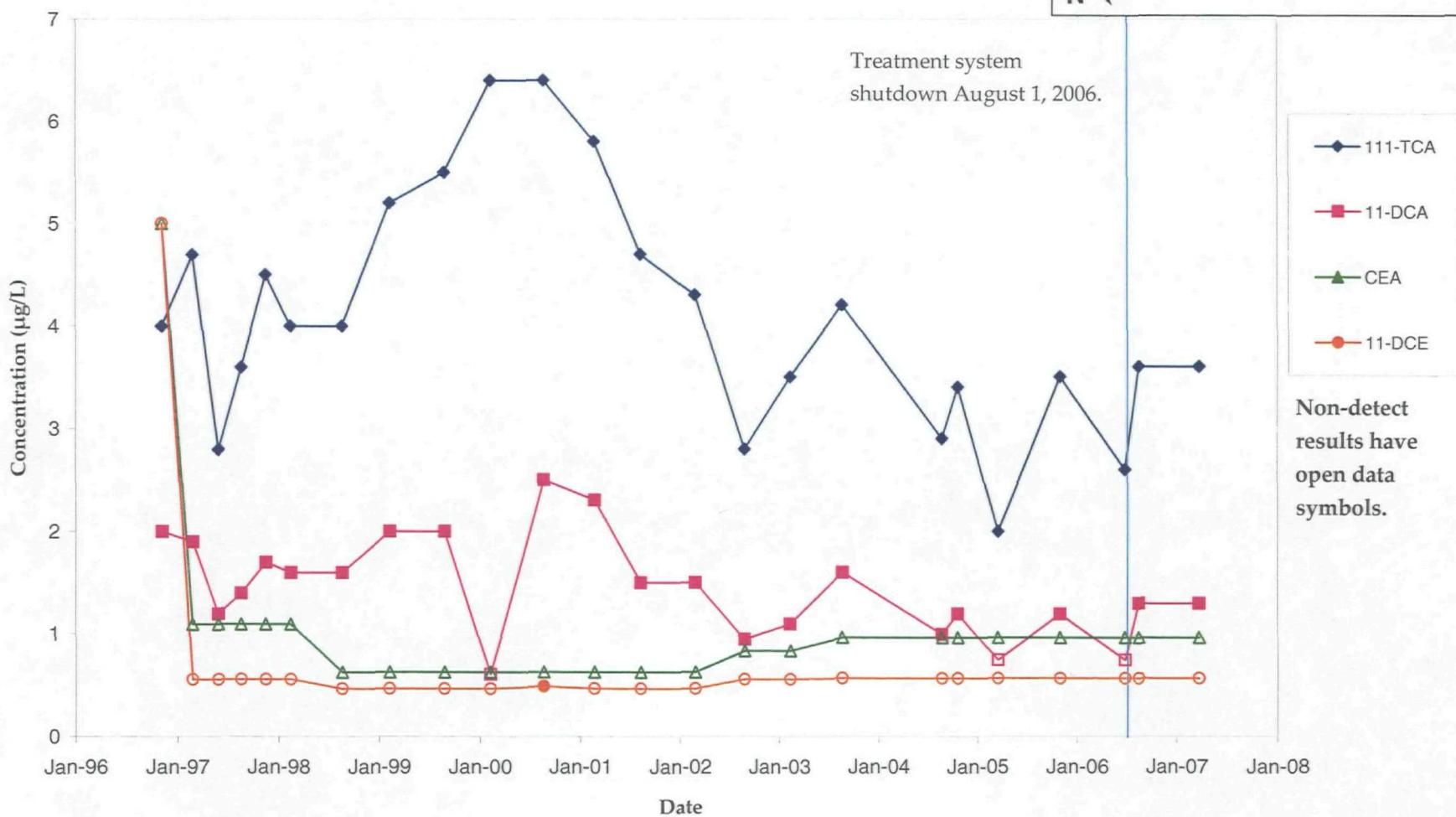


ee

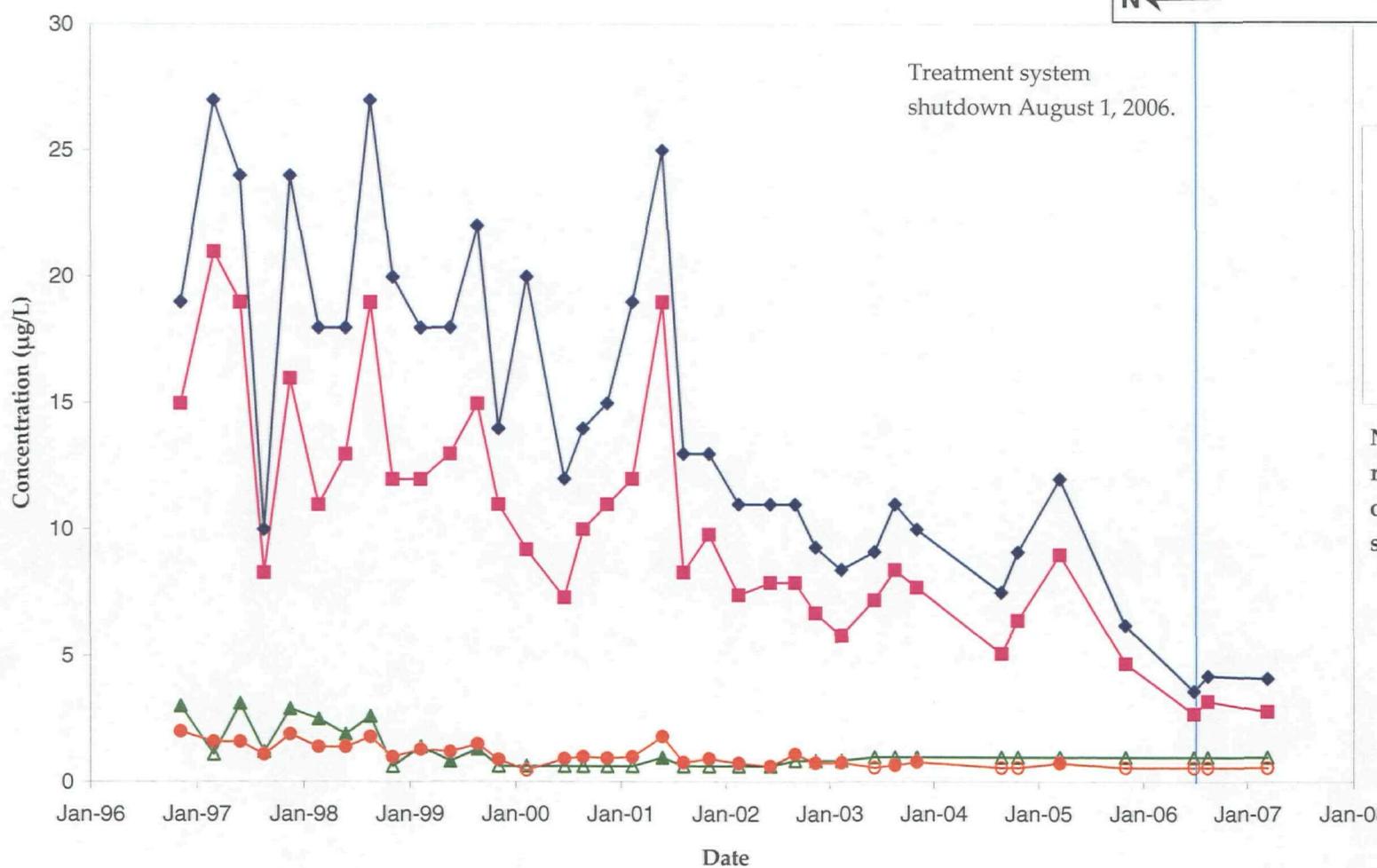
RM-008D
VOC Concentration Trends
Lemberger Landfill



RM-010D
VOC Concentration Trends
Lemberger Landfill



RM-101D
VOC Concentration Trends
Lemberger Landfill



LL LTR

RM-101I, 101D •

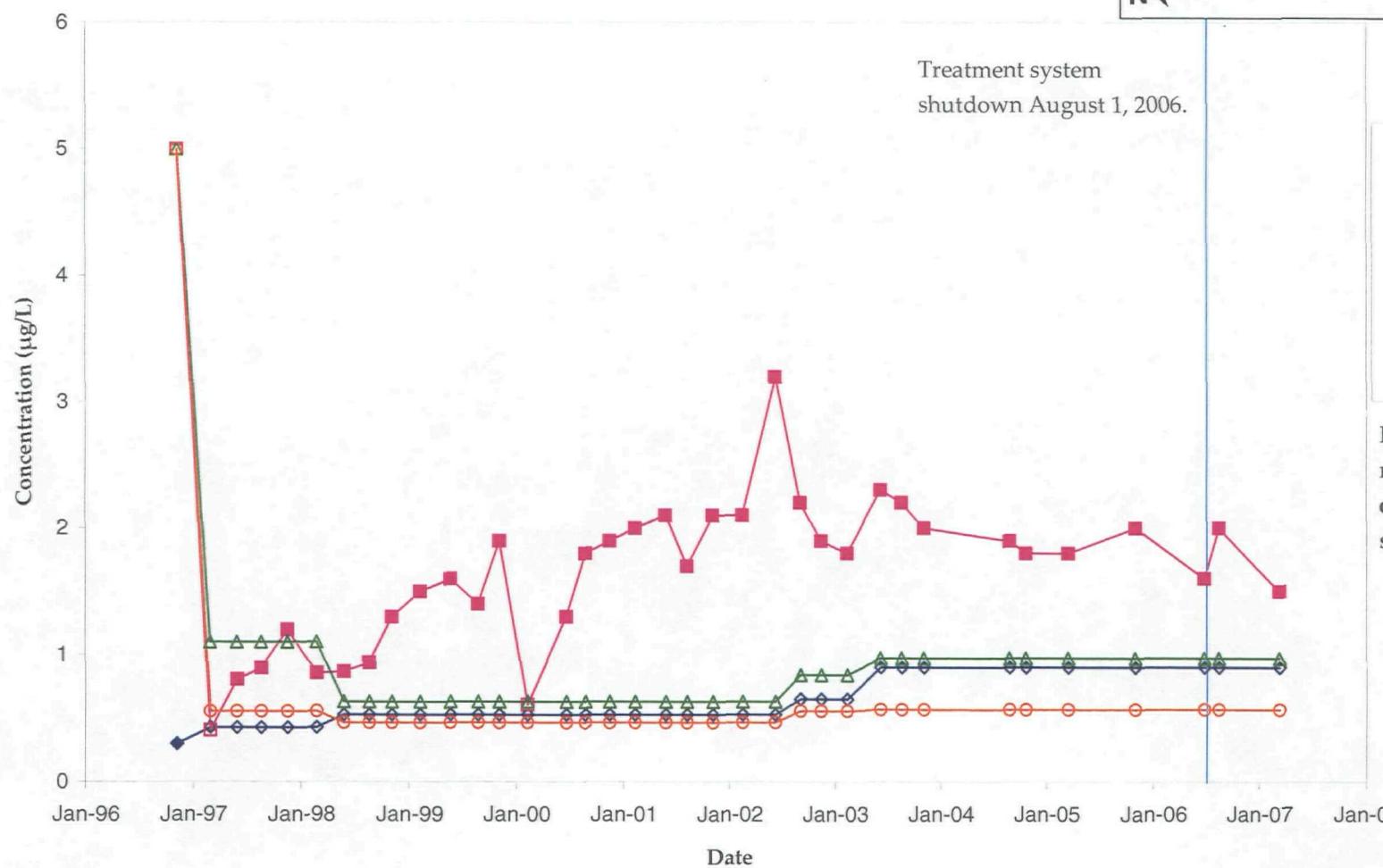
N ←

—●— 111-TCA
—■— 11-DCA
—▲— CEA
—●— 11-DCE

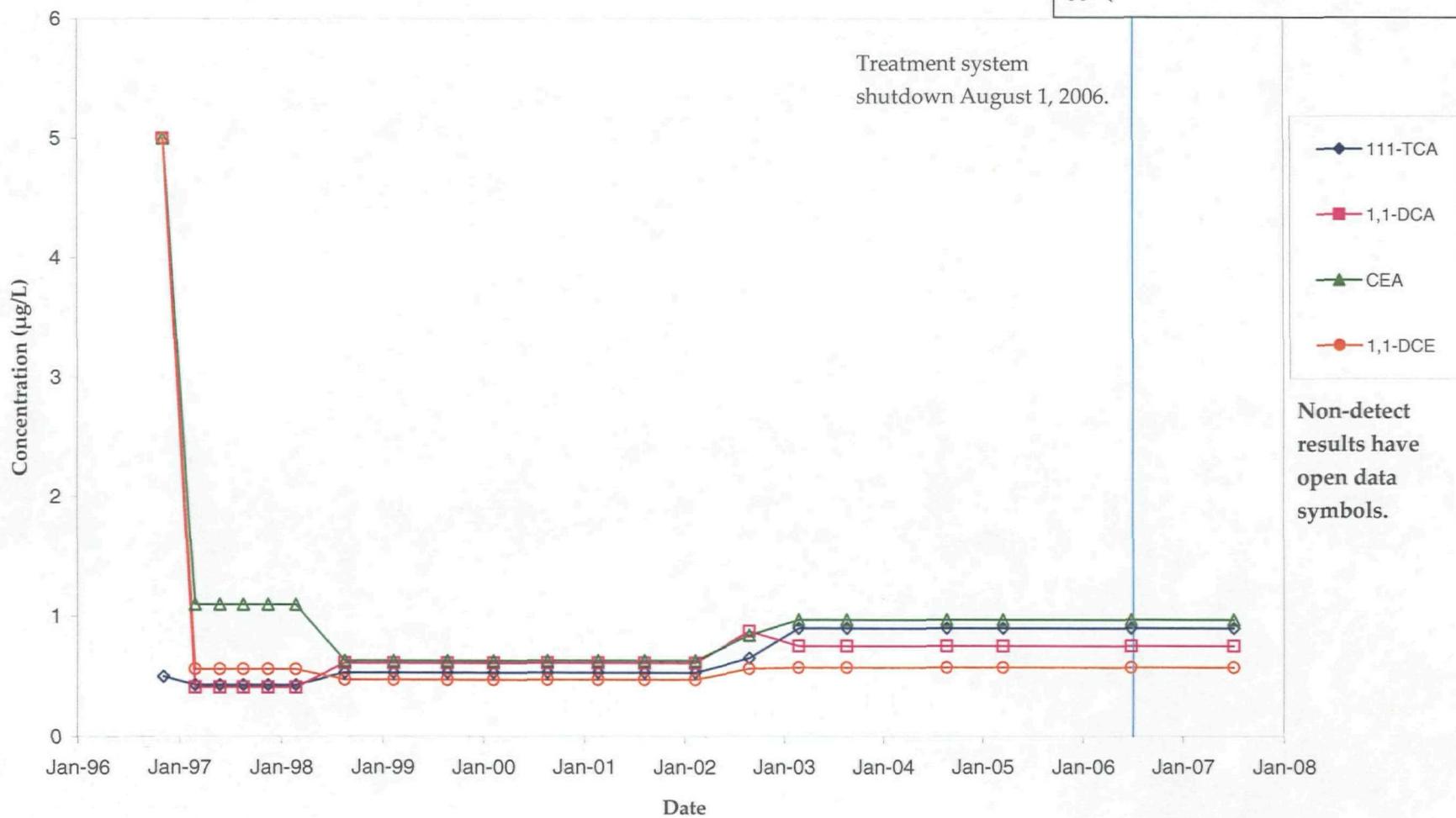
Non-detect
results have
open data
symbols.

SC

RM-101I
VOC Concentration Trends
Lemberger Landfill

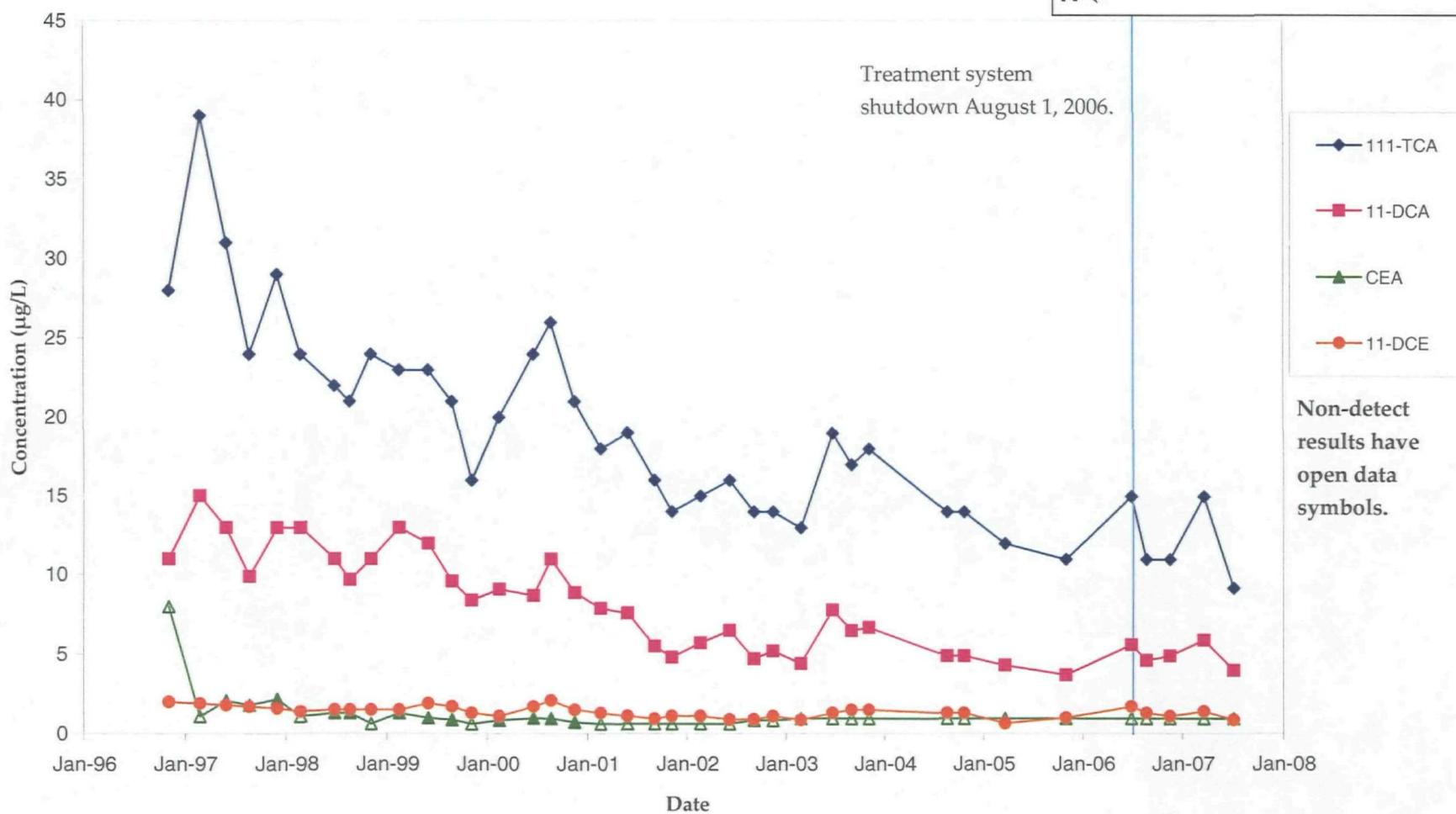
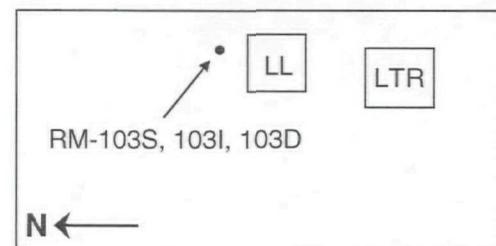


RM-102D
VOC Concentration Trends
Lemberger Landfill



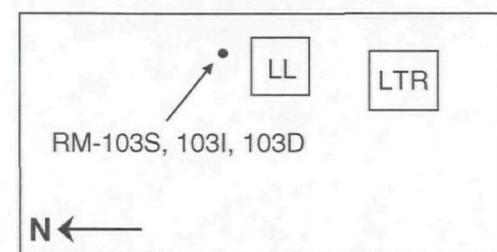
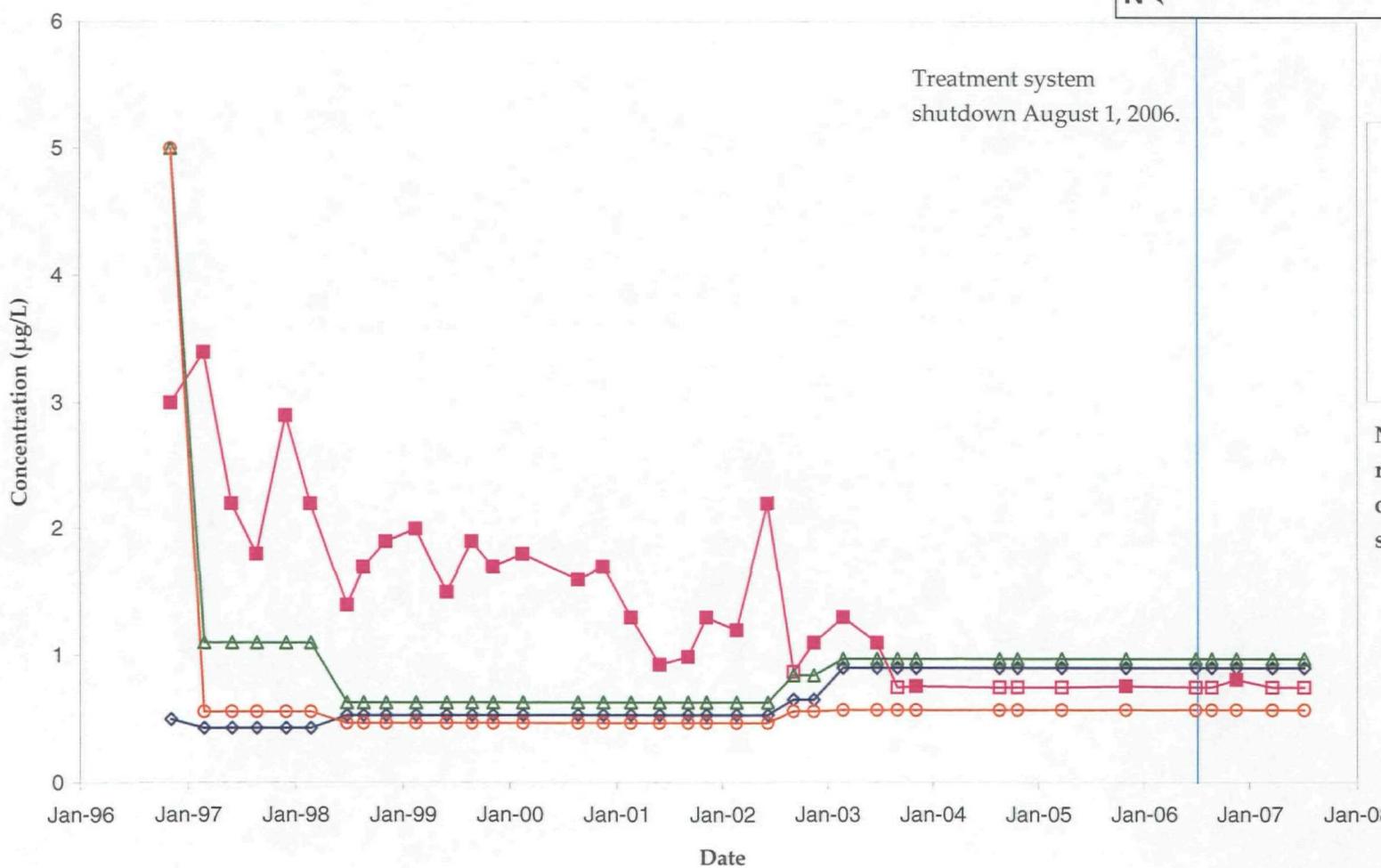
LL

RM-103D
VOC Concentration Trends
Lemberger Landfill



LL

RM-103S
VOC Concentration Trends
Lemberger Landfill

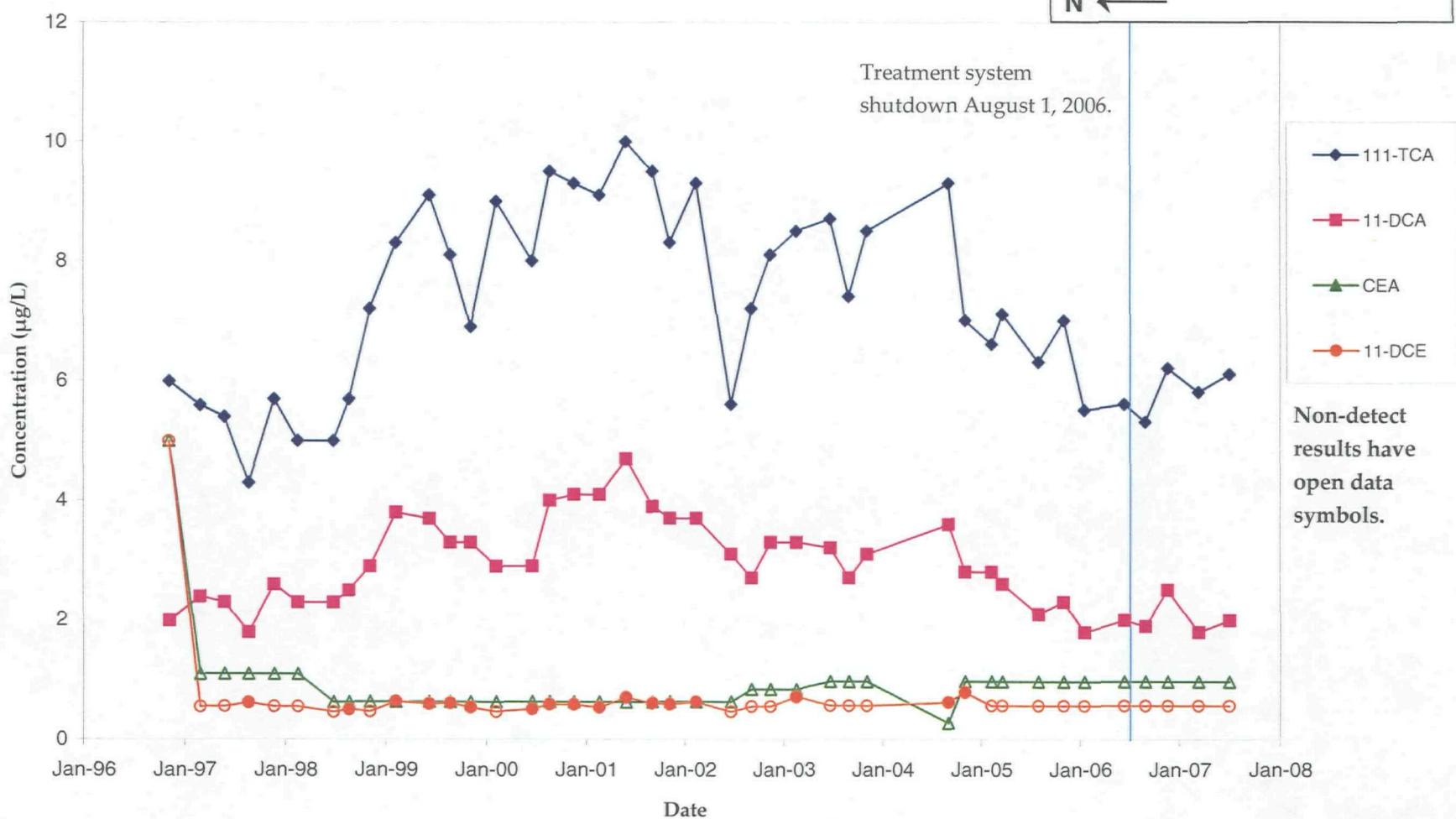


RM-203D
VOC Concentration Trends
Lemberger Landfill

LL LTR

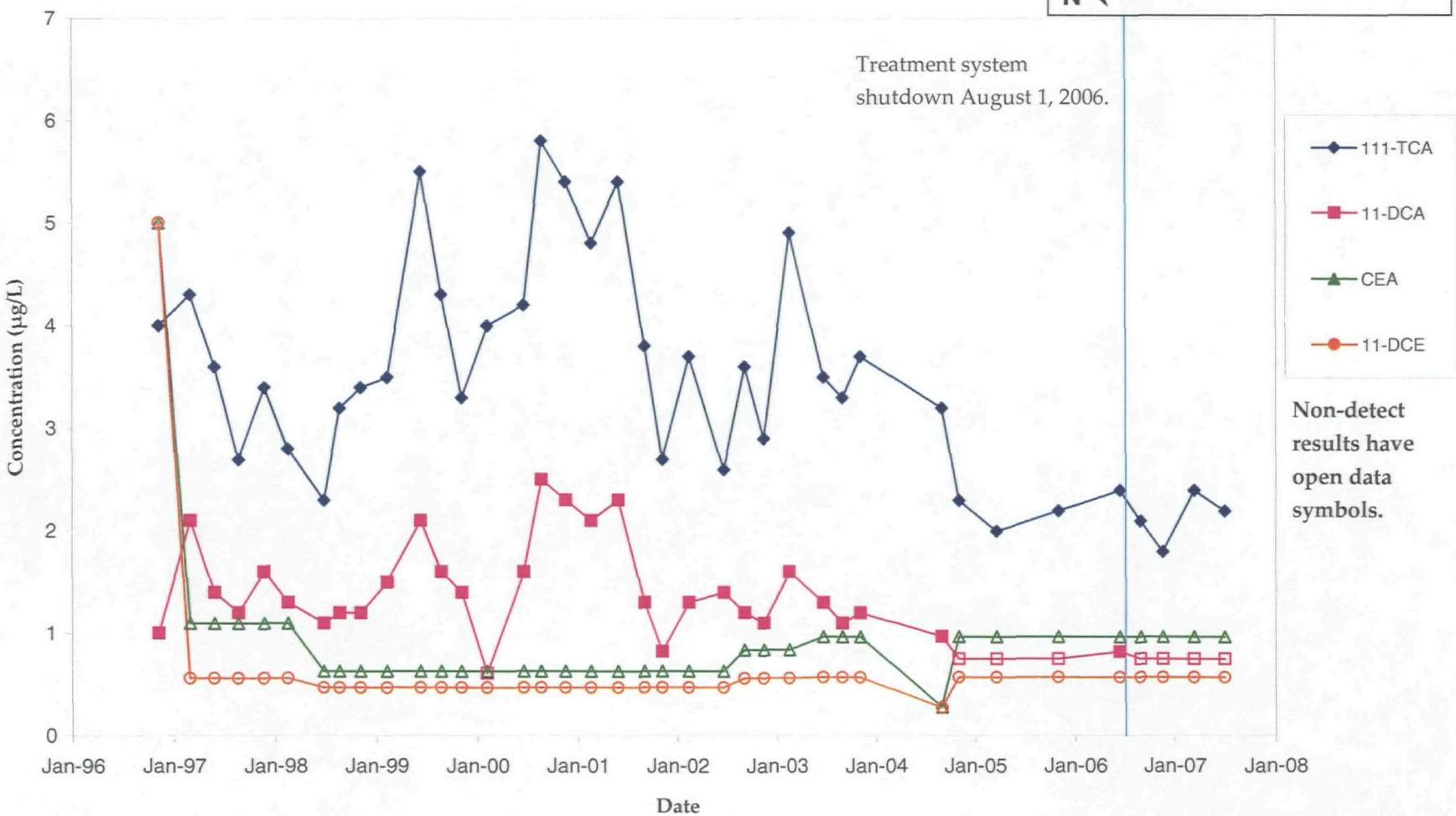
● RM-203I, 203D

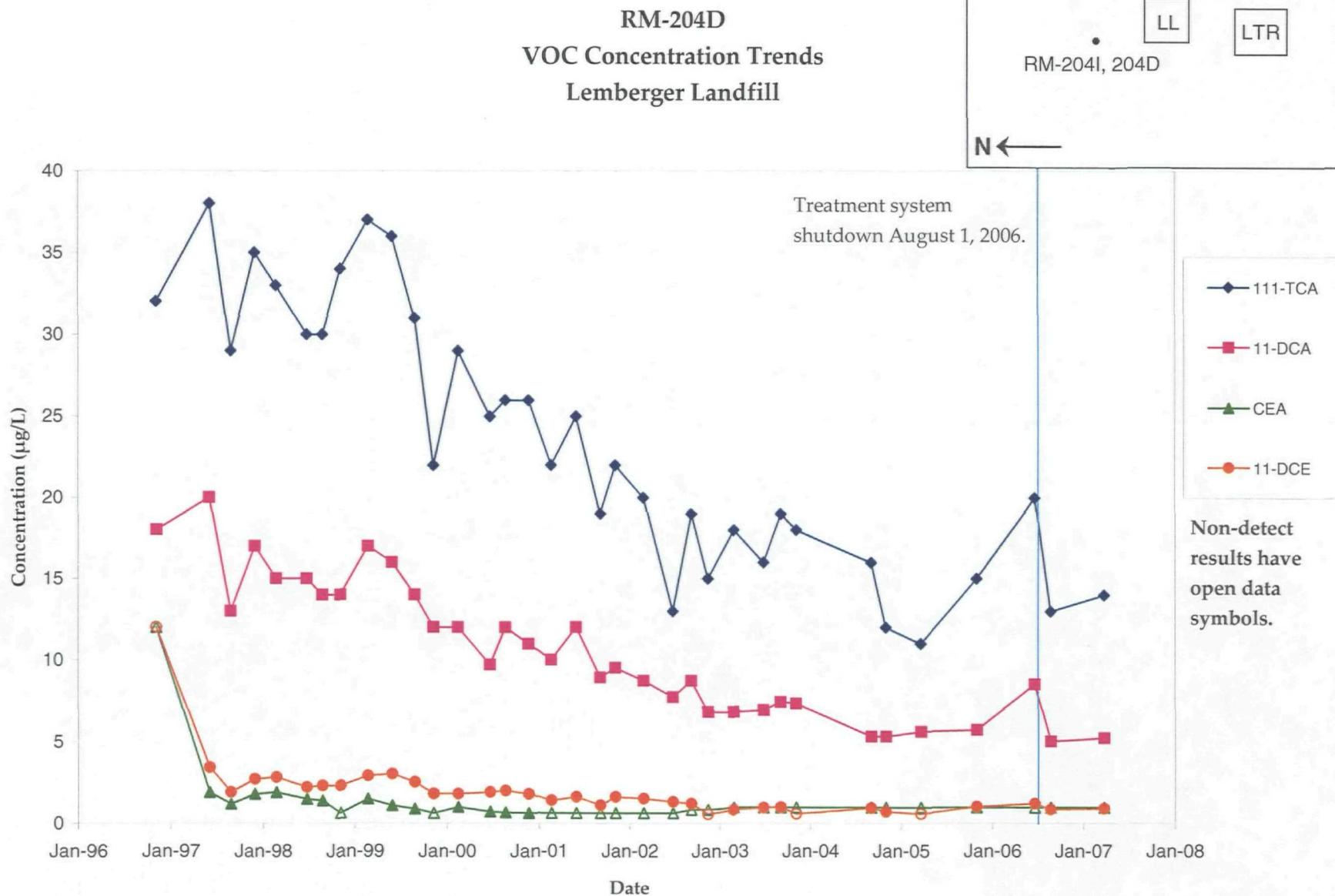
N ←



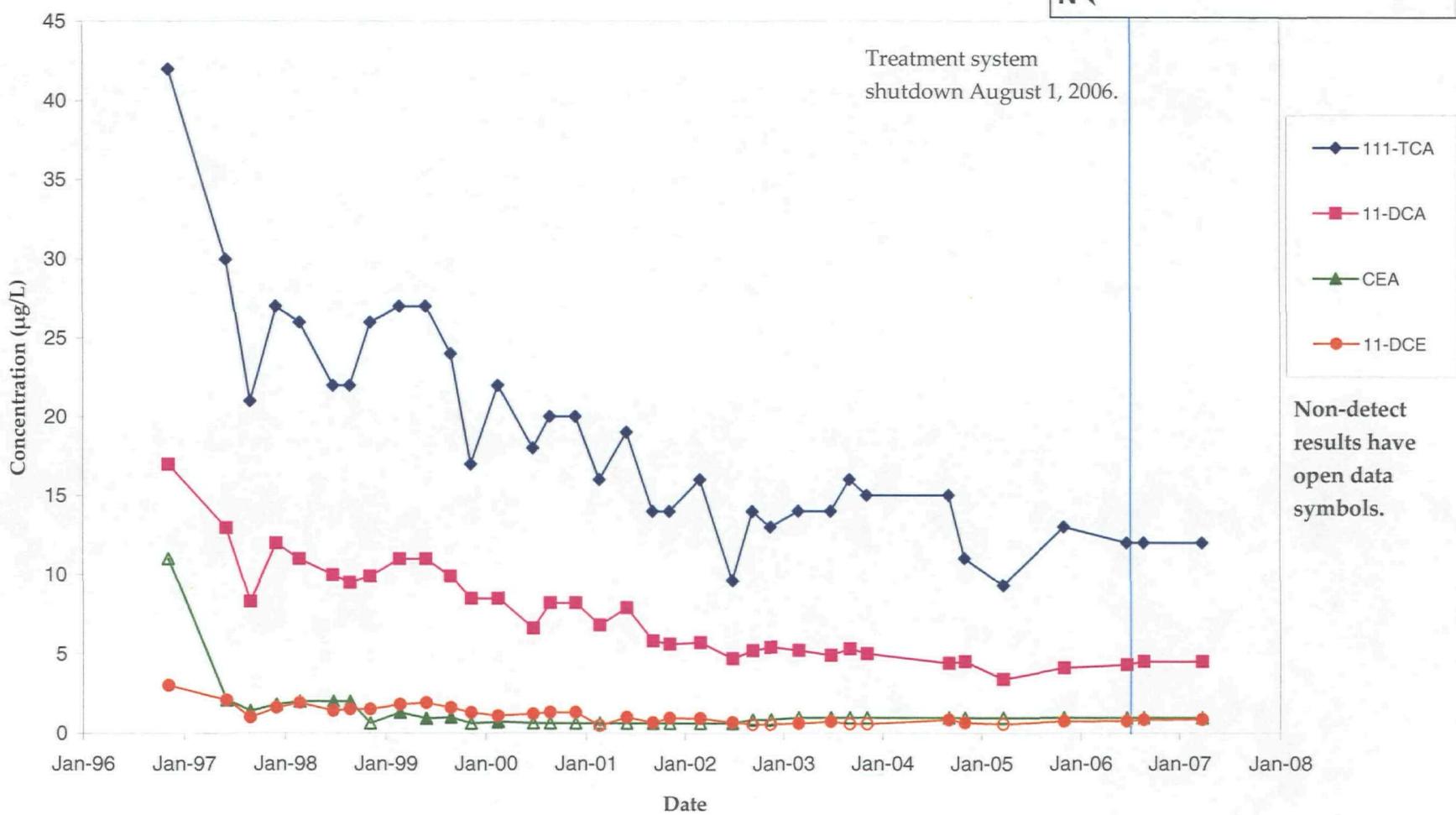
30

RM-203I
VOC Concentration Trends
Lemberger Landfill



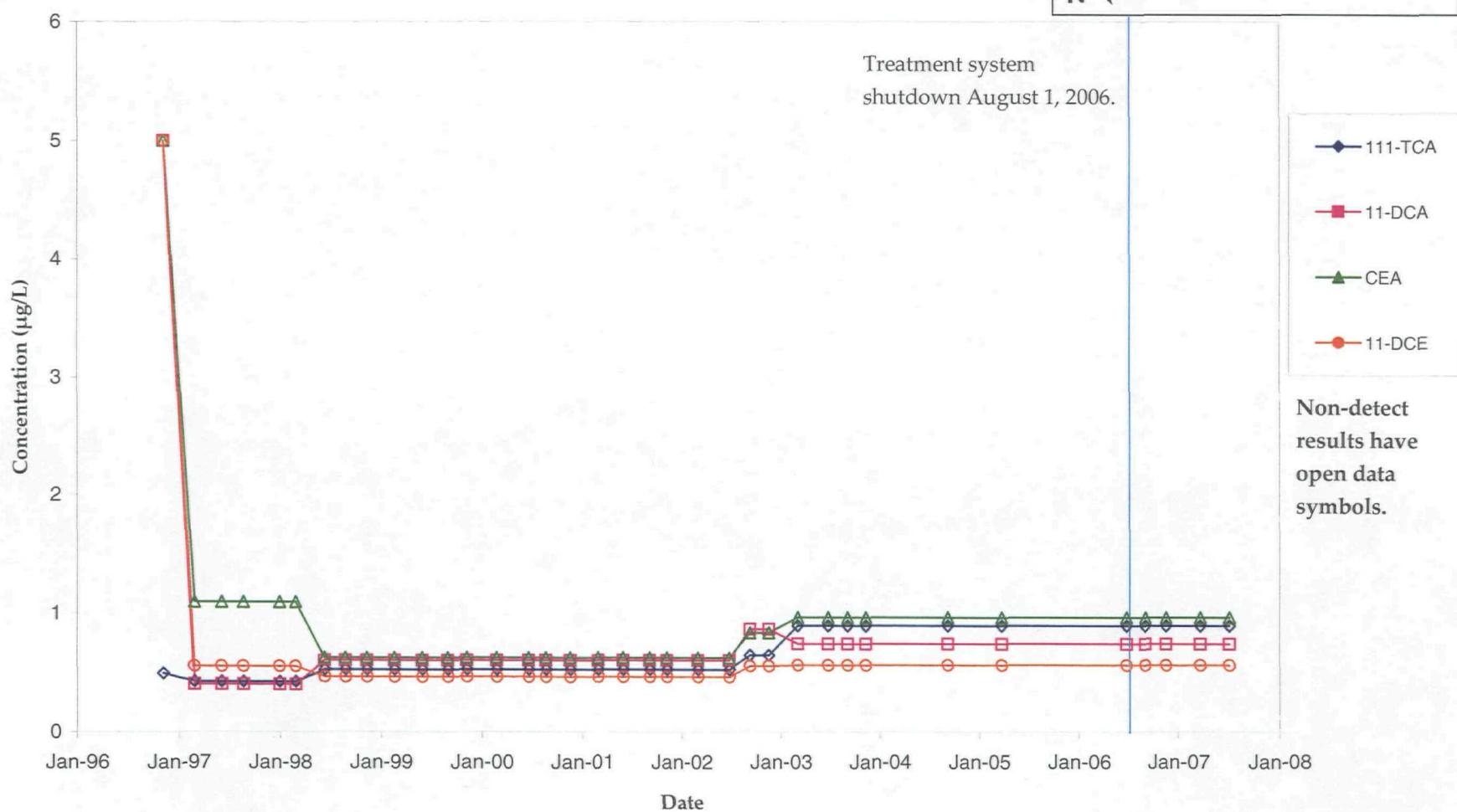
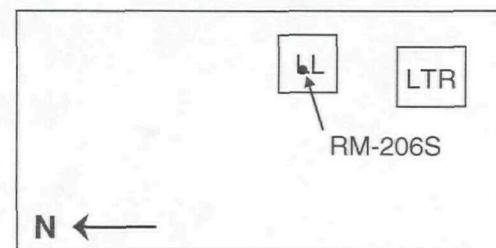


RM-204I
VOC Concentration Trends
Lemberger Landfill



EE

RM-206S
VOC Concentration Trends
Lemberger Landfill



he

RM-207S
VOC Concentration Trends
Lemberger Landfill

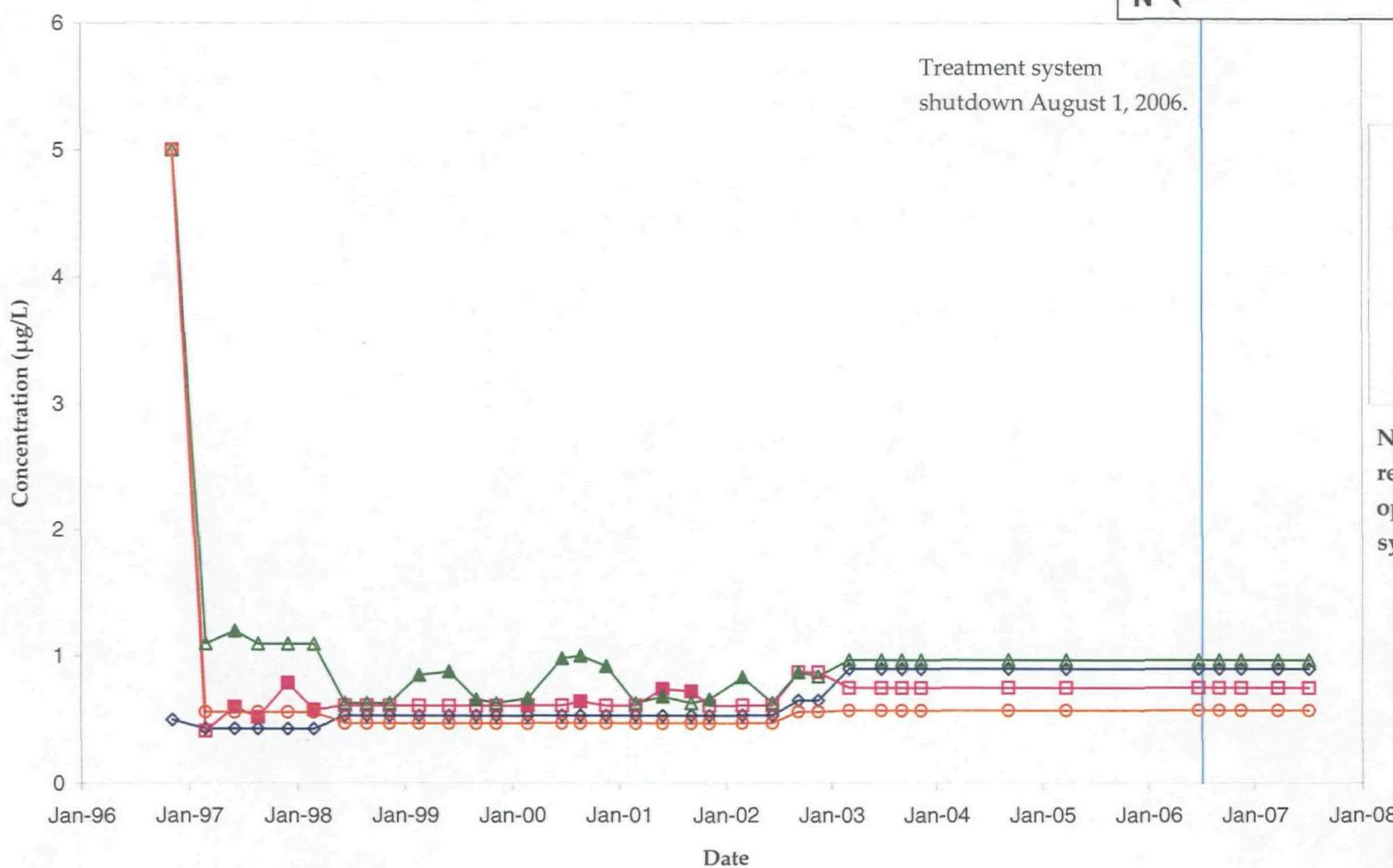
Lb LTR
RM-207S

N ←

Treatment system
shutdown August 1, 2006.

- 111-TCA
- 11-DCA
- ▲ CEA
- 11-DCE

Non-detect
results have
open data
symbols.



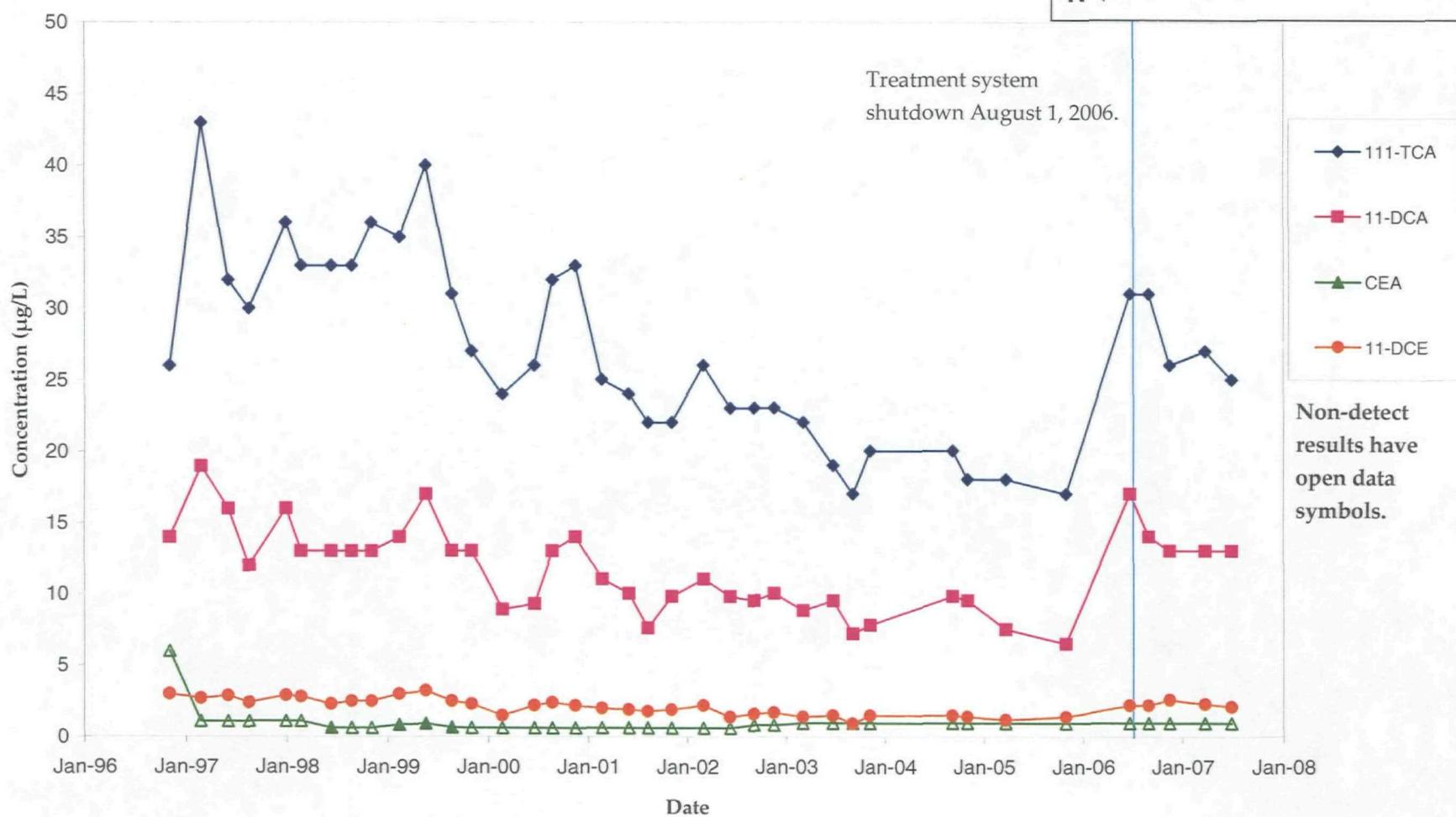
SC

RM-208D
VOC Concentration Trends
Lemberger Landfill

RM-208S, 208I, 208D

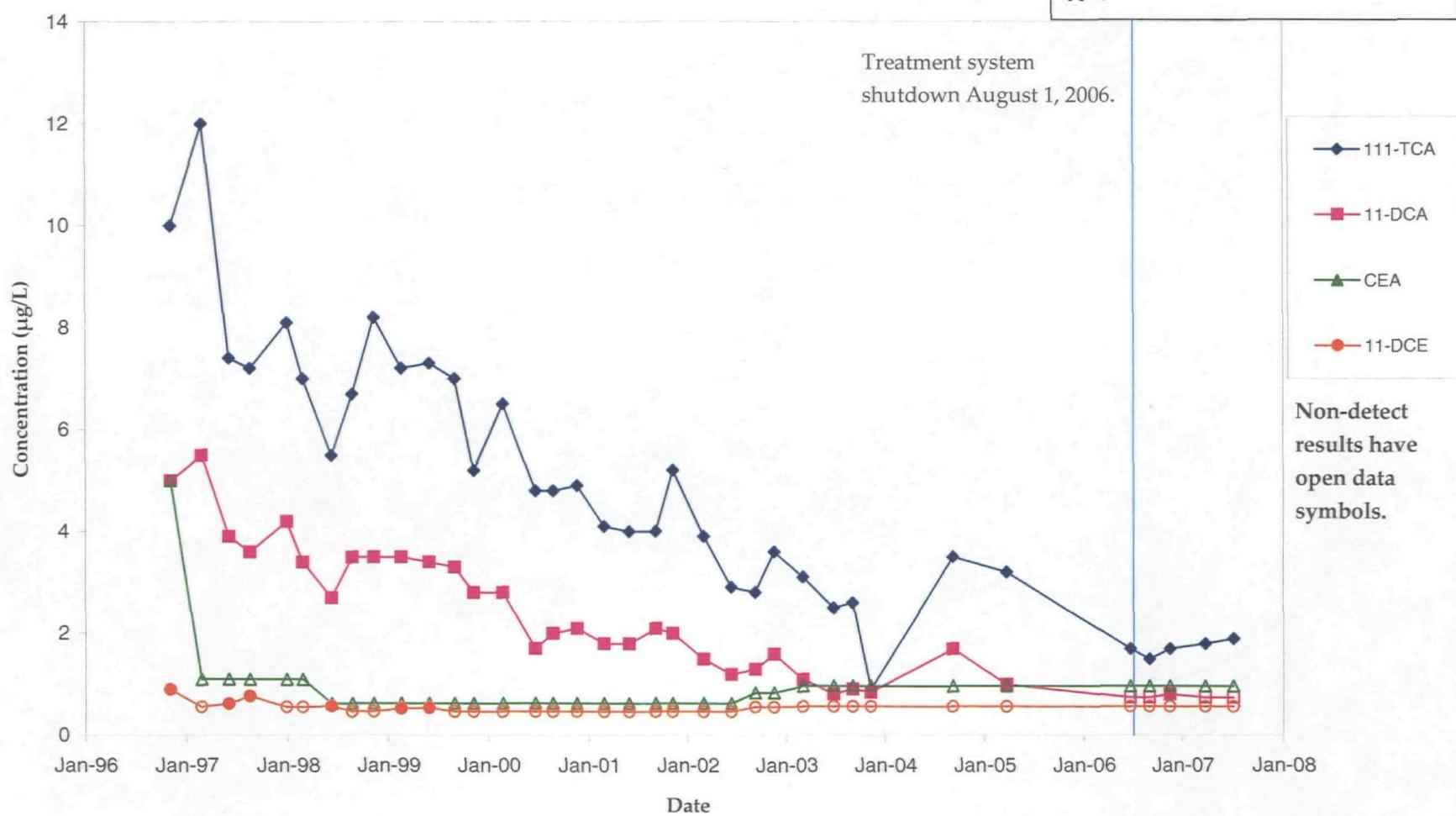
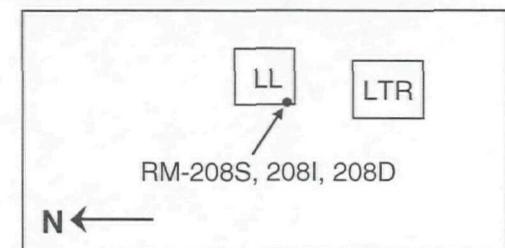
LL
LTR

N ←

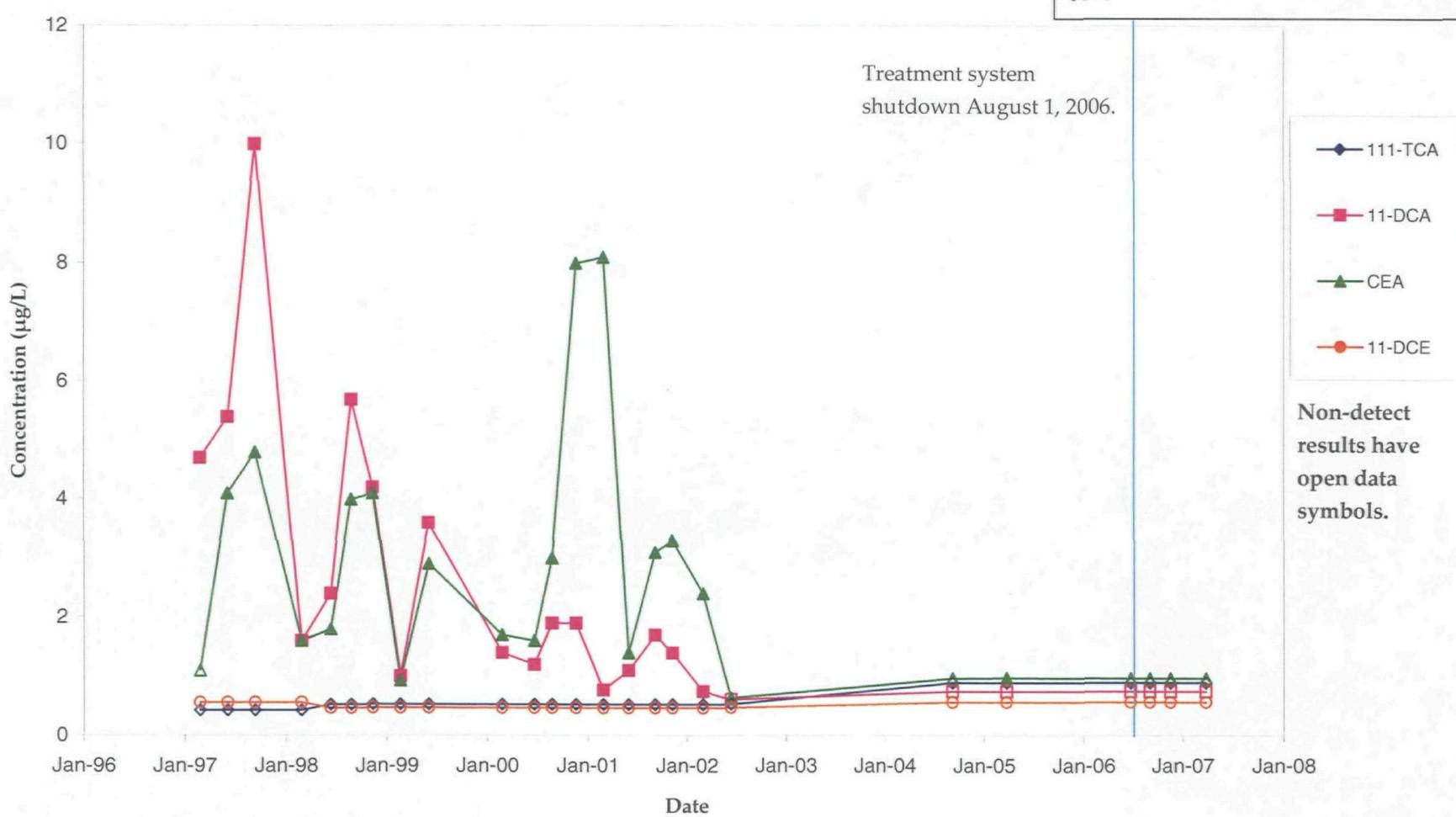


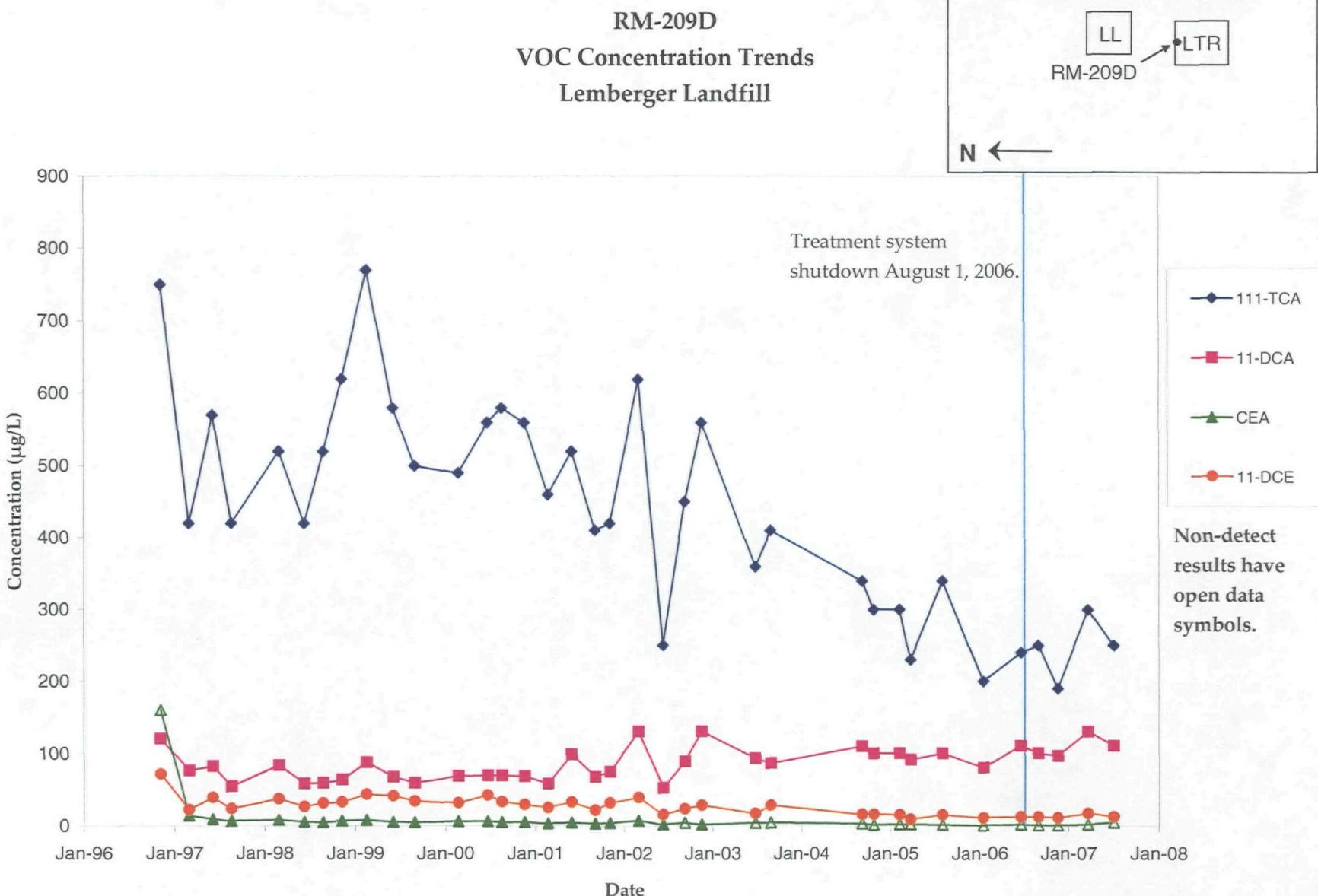
AC

RM-208I
VOC Concentration Trends
Lemberger Landfill

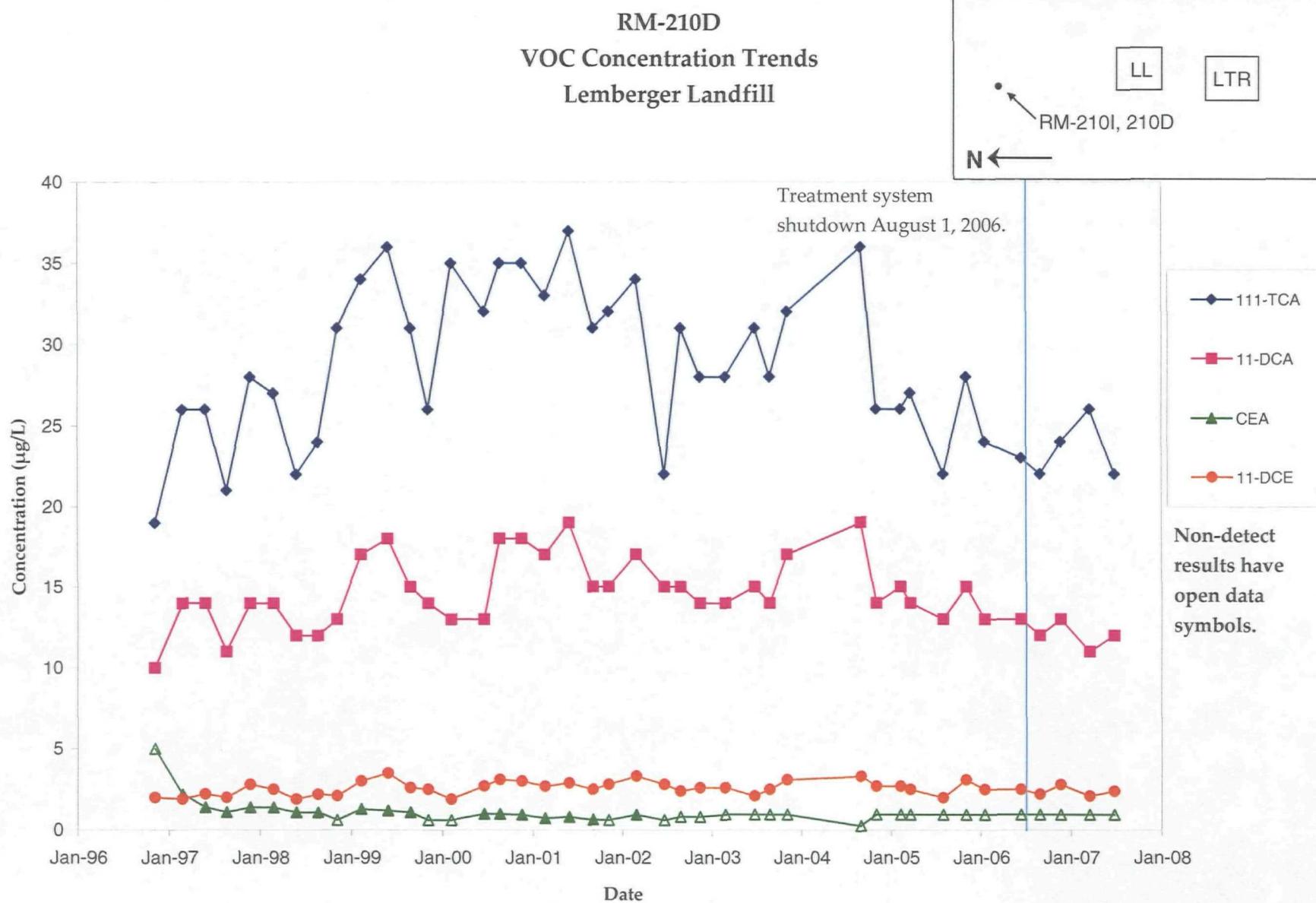


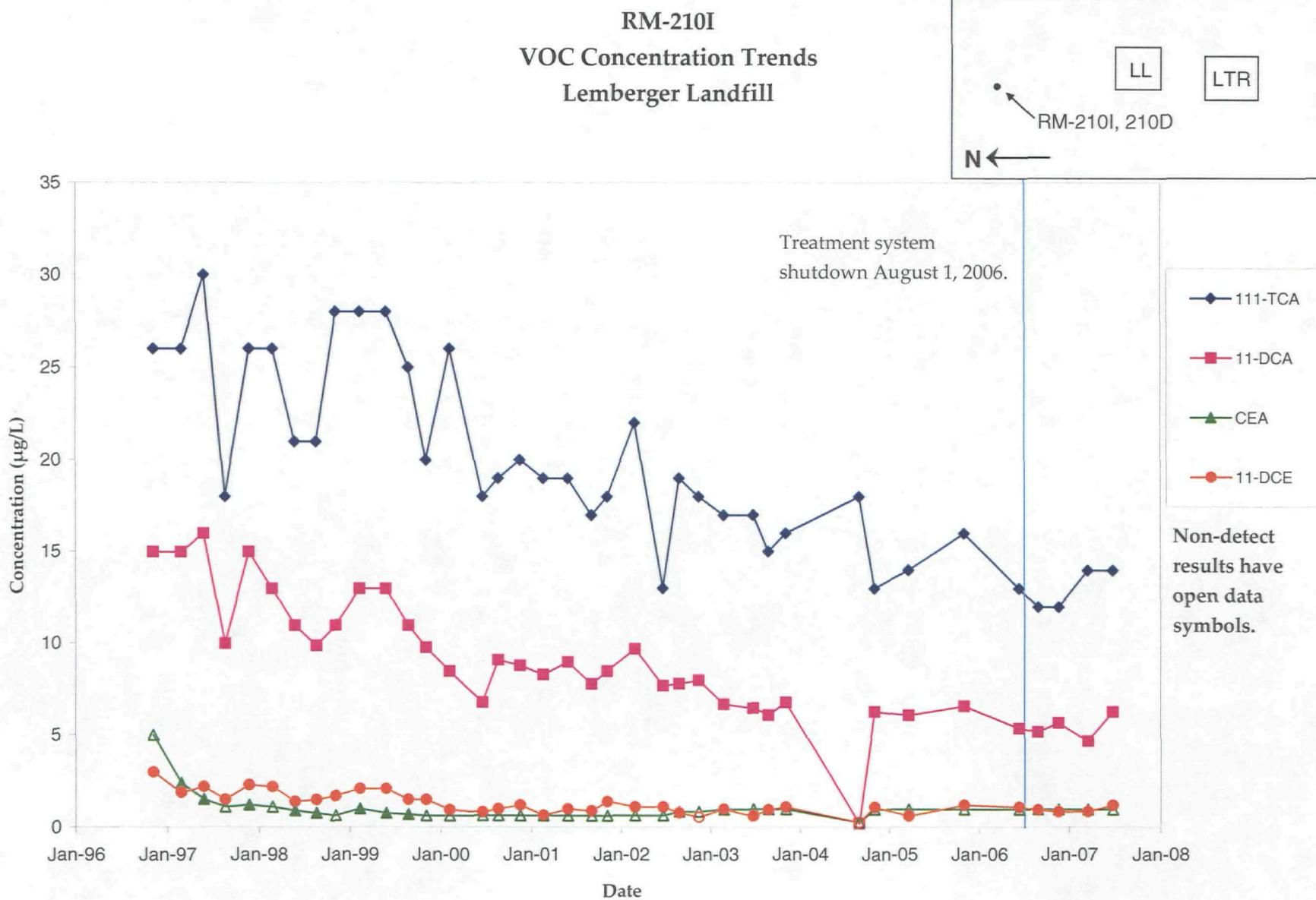
RM-208S
VOC Concentration Trends
Lemberger Landfill

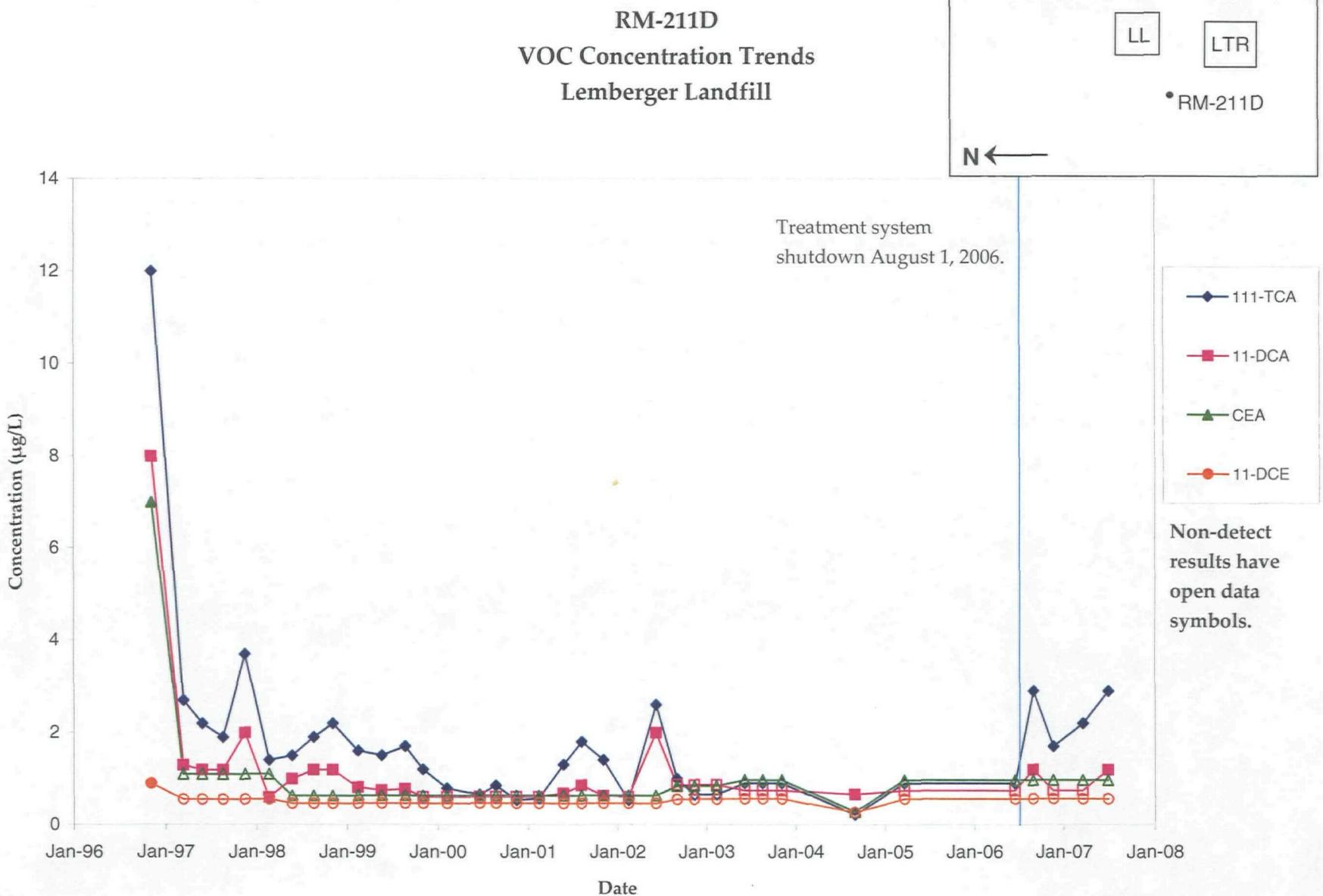




39







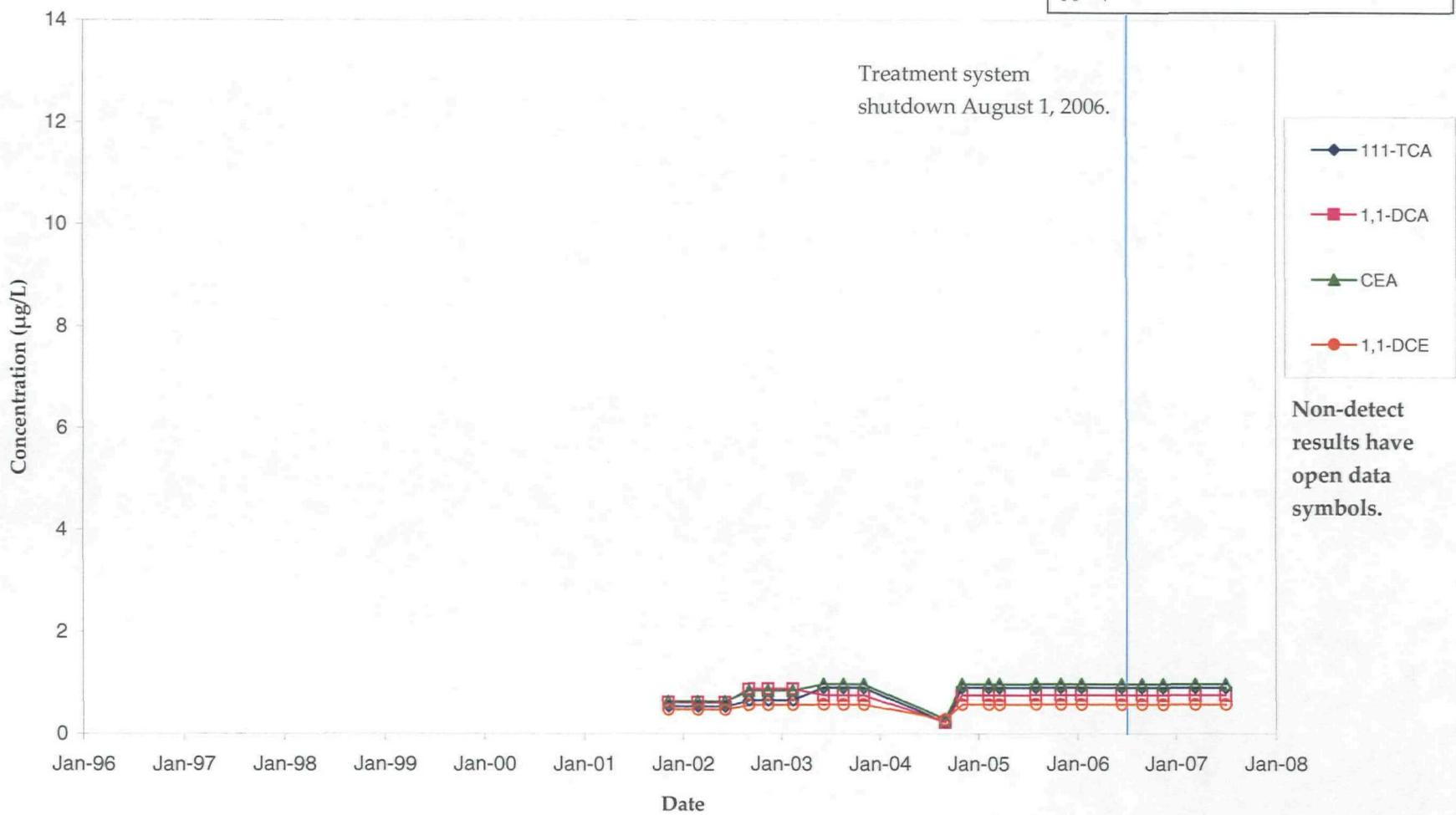
efh

RM-212D
VOC Concentration Trends
Lemberger Landfill

LL LTR

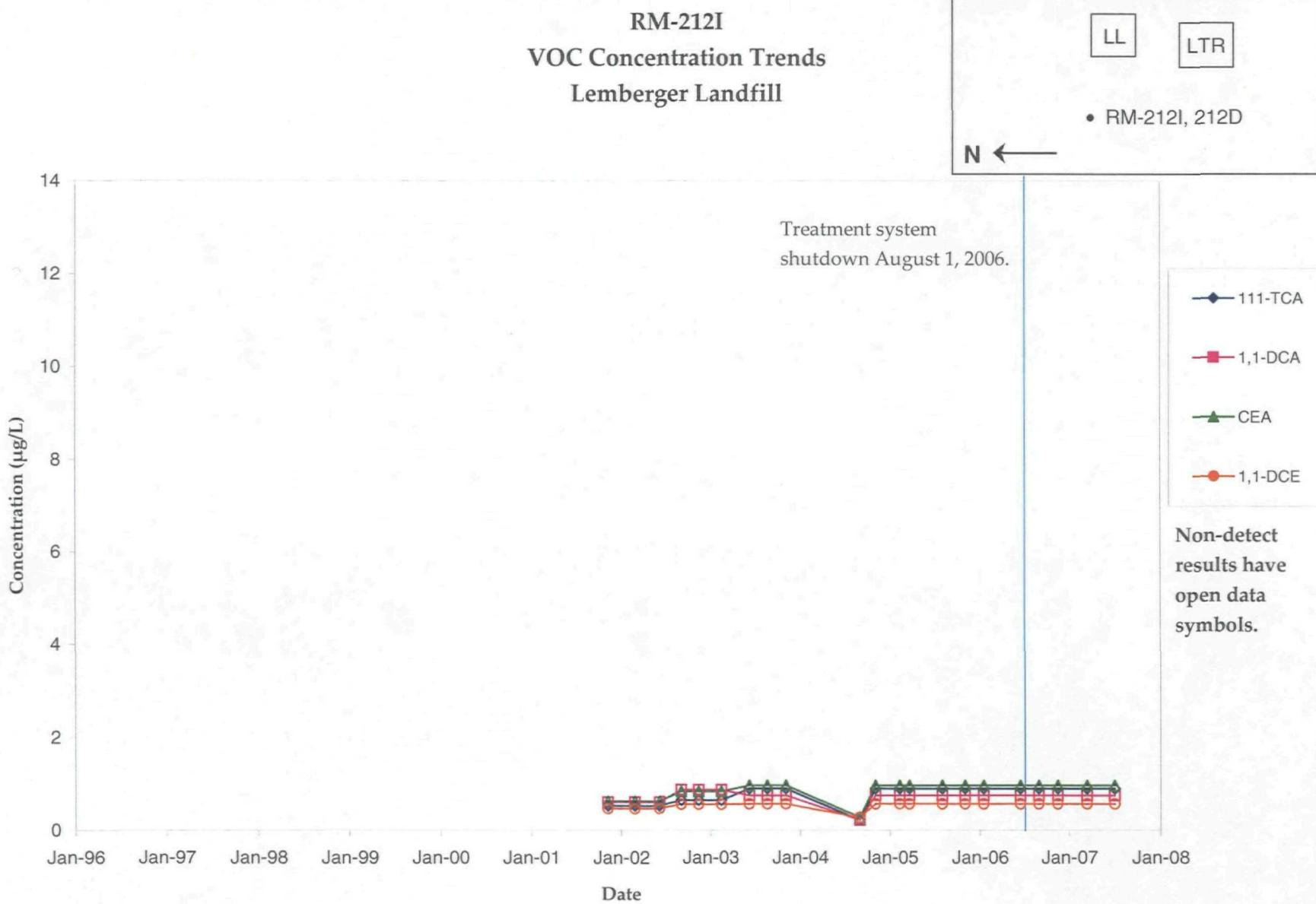
• RM-212I, 212D

N ←



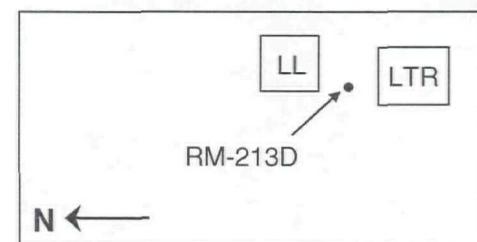
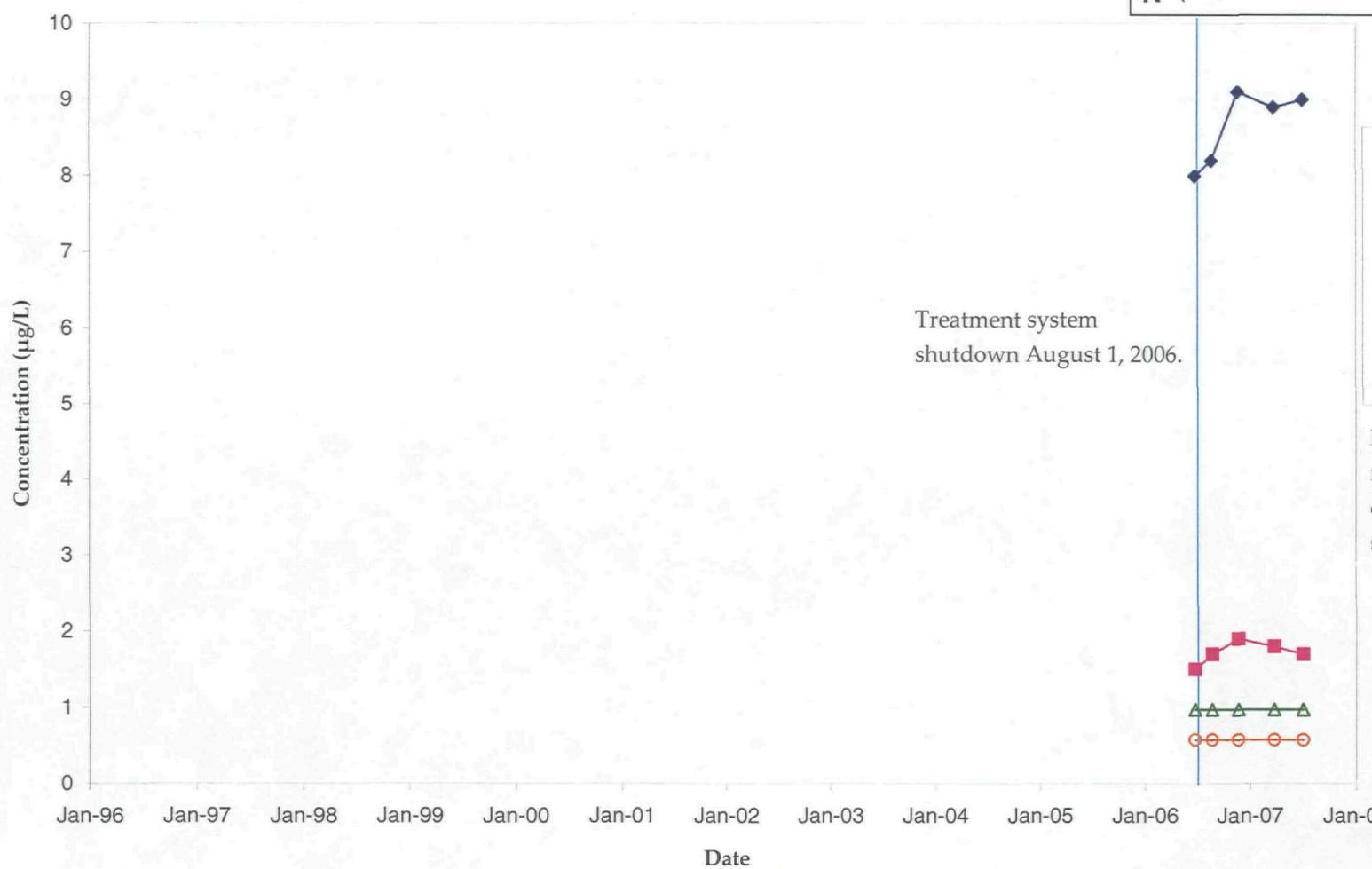
43

RM-212I
VOC Concentration Trends
Lemberger Landfill

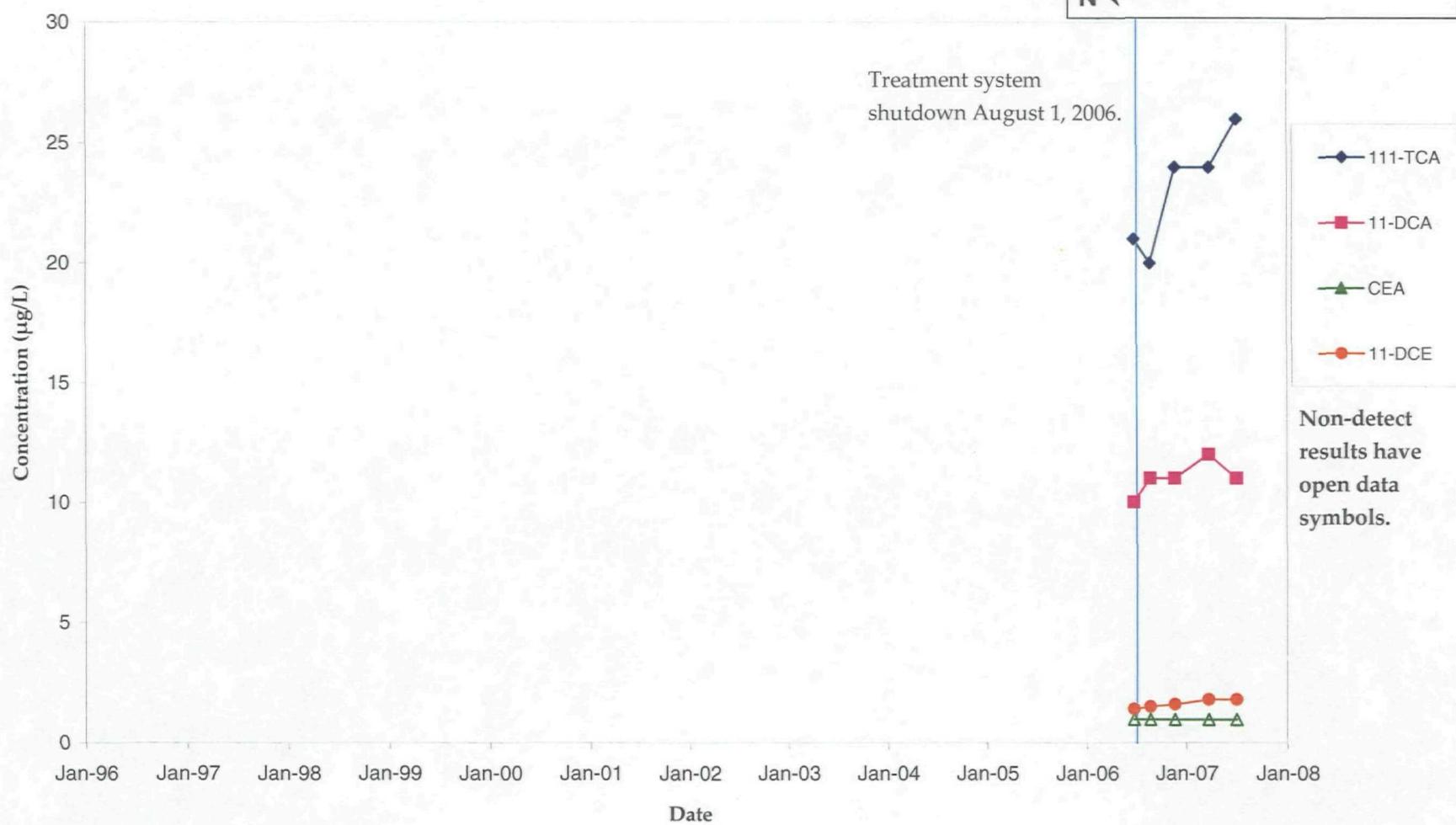


hh

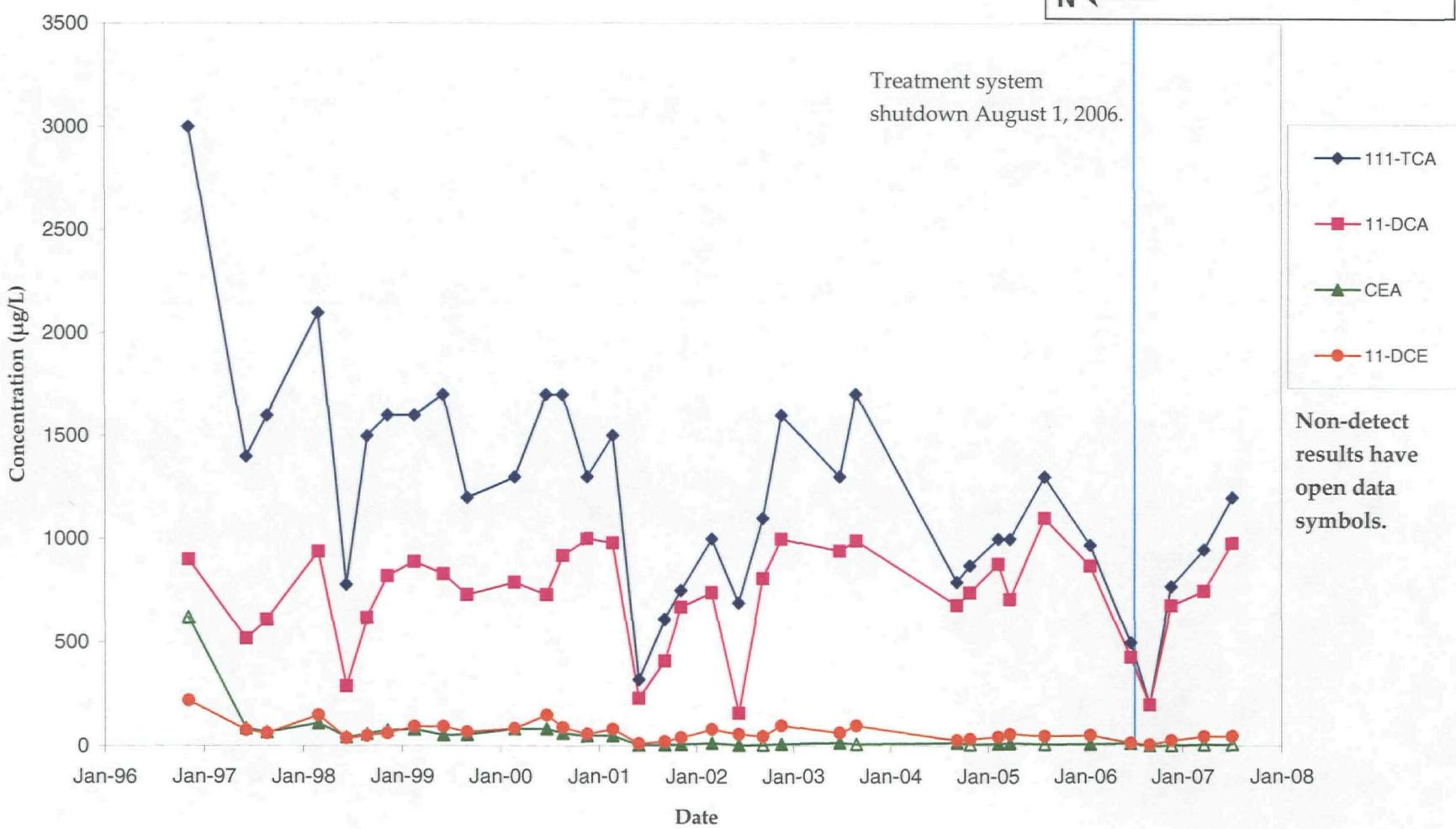
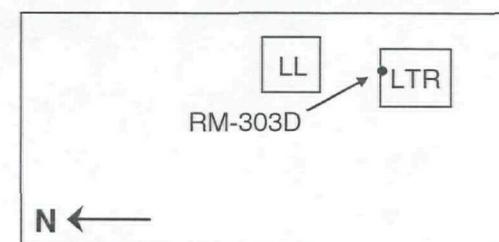
RM-213D
VOC Concentration Trends
Lemberger Landfill



RM-214D
VOC Concentration Trends
Lemberger Landfill

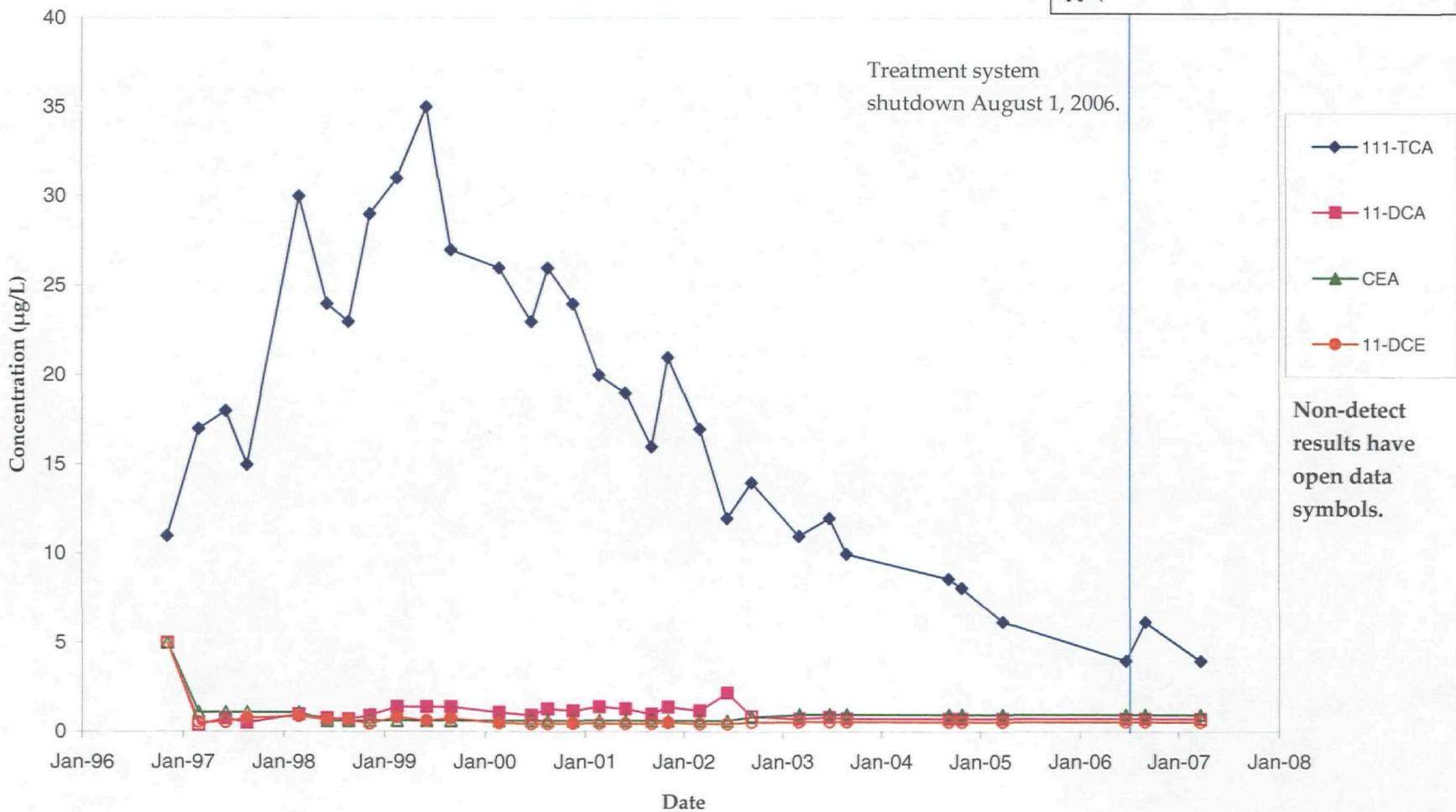


RM-303D
VOC Concentration Trends
Lemberger Landfill



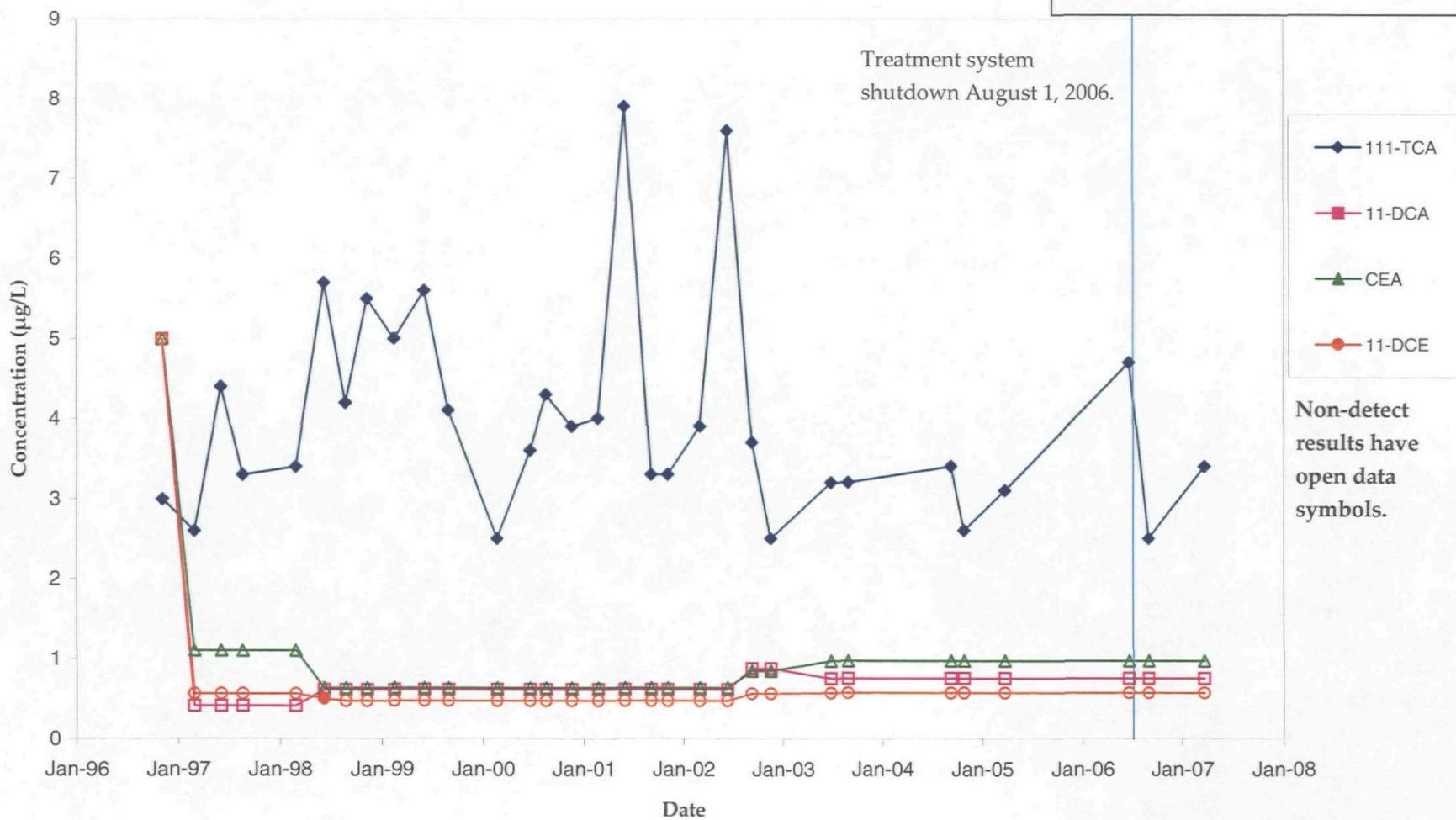
L7

RM-304D
VOC Concentration Trends
Lemberger Landfill



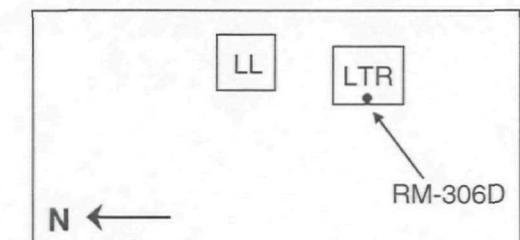
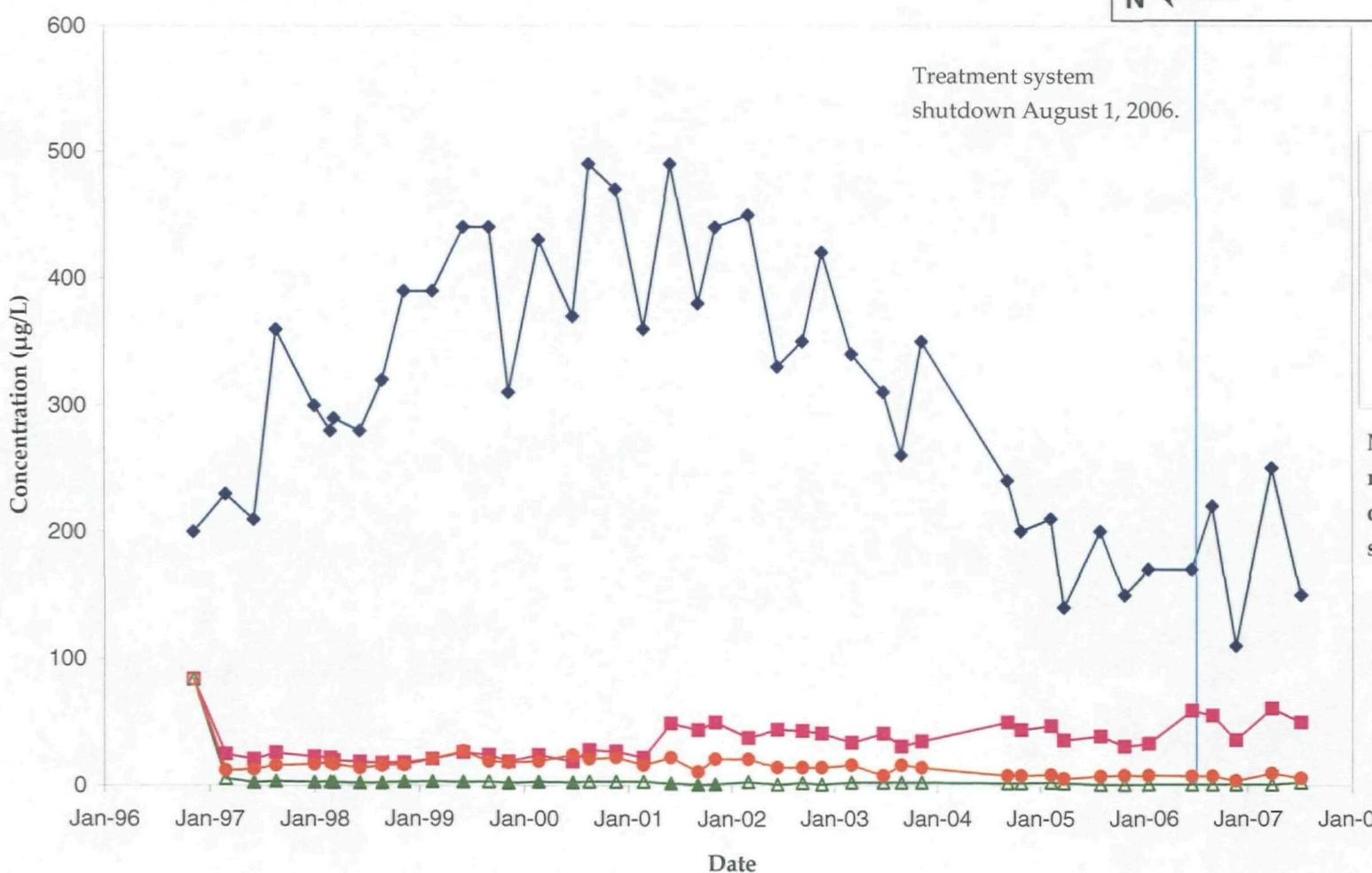
87

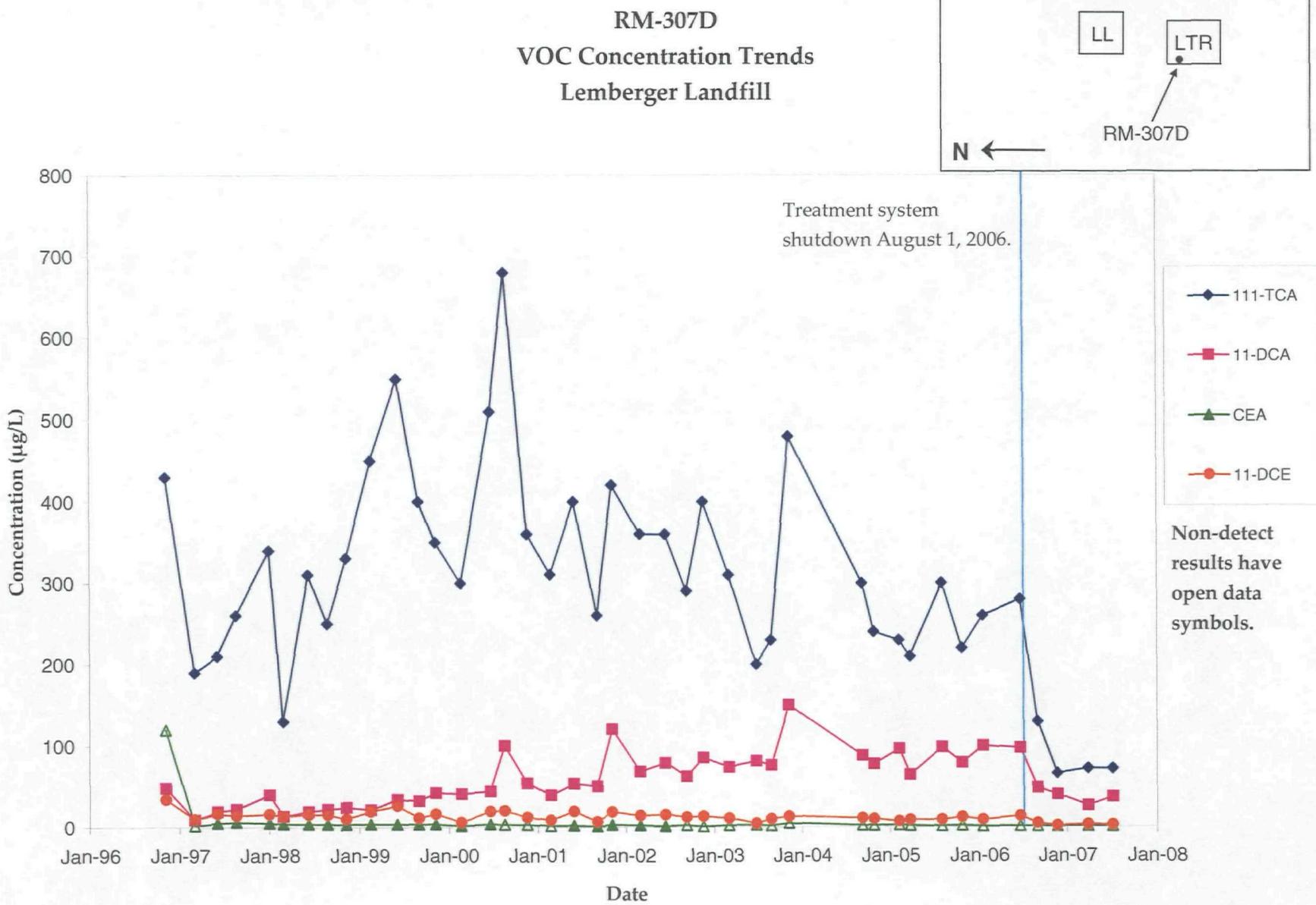
RM-305D
VOC Concentration Trends
Lemberger Landfill



bh

RM-306D
VOC Concentration Trends
Lemberger Landfill





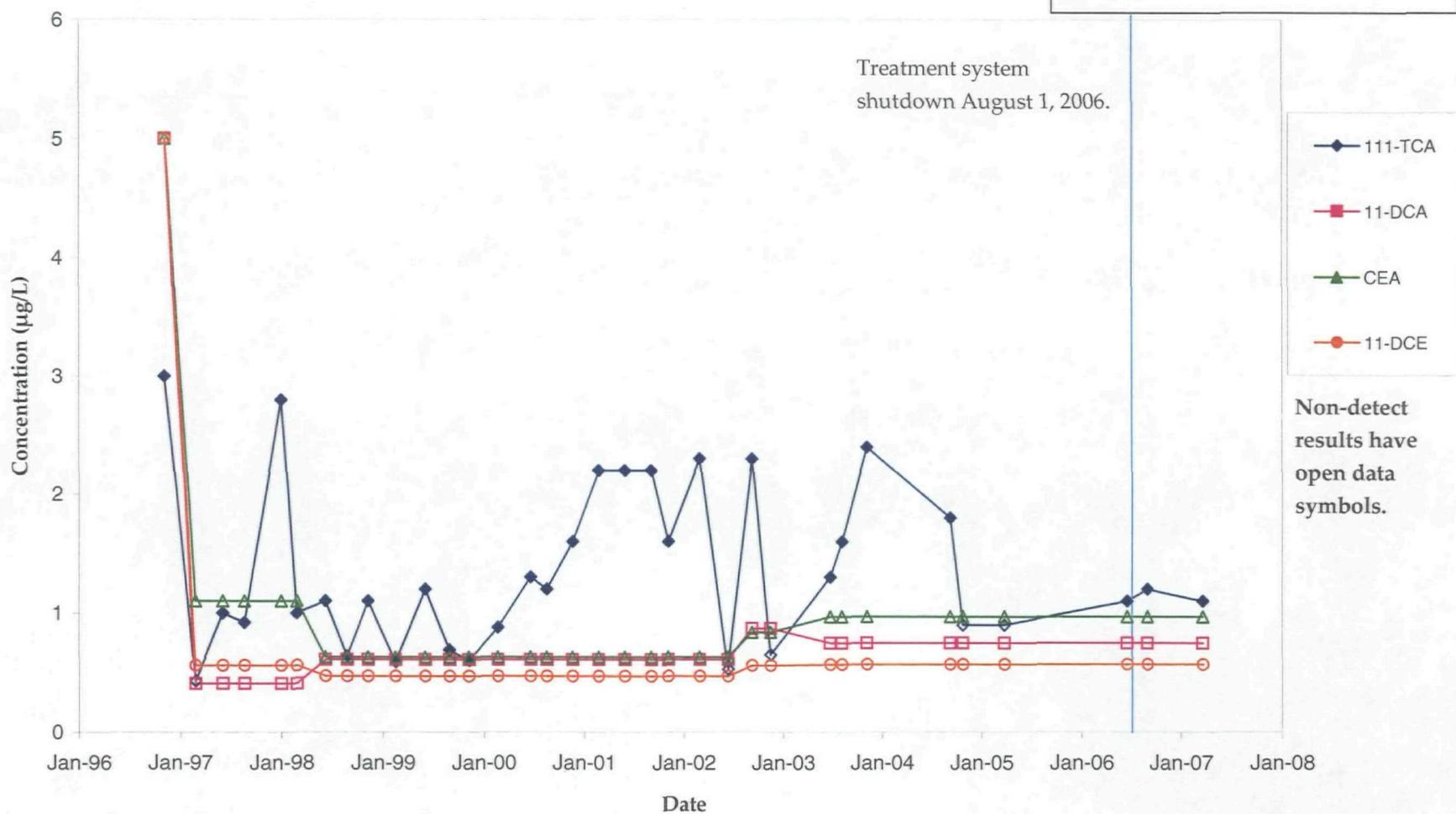
RM-308D
VOC Concentration Trends
Lemberger Landfill

LL LTR

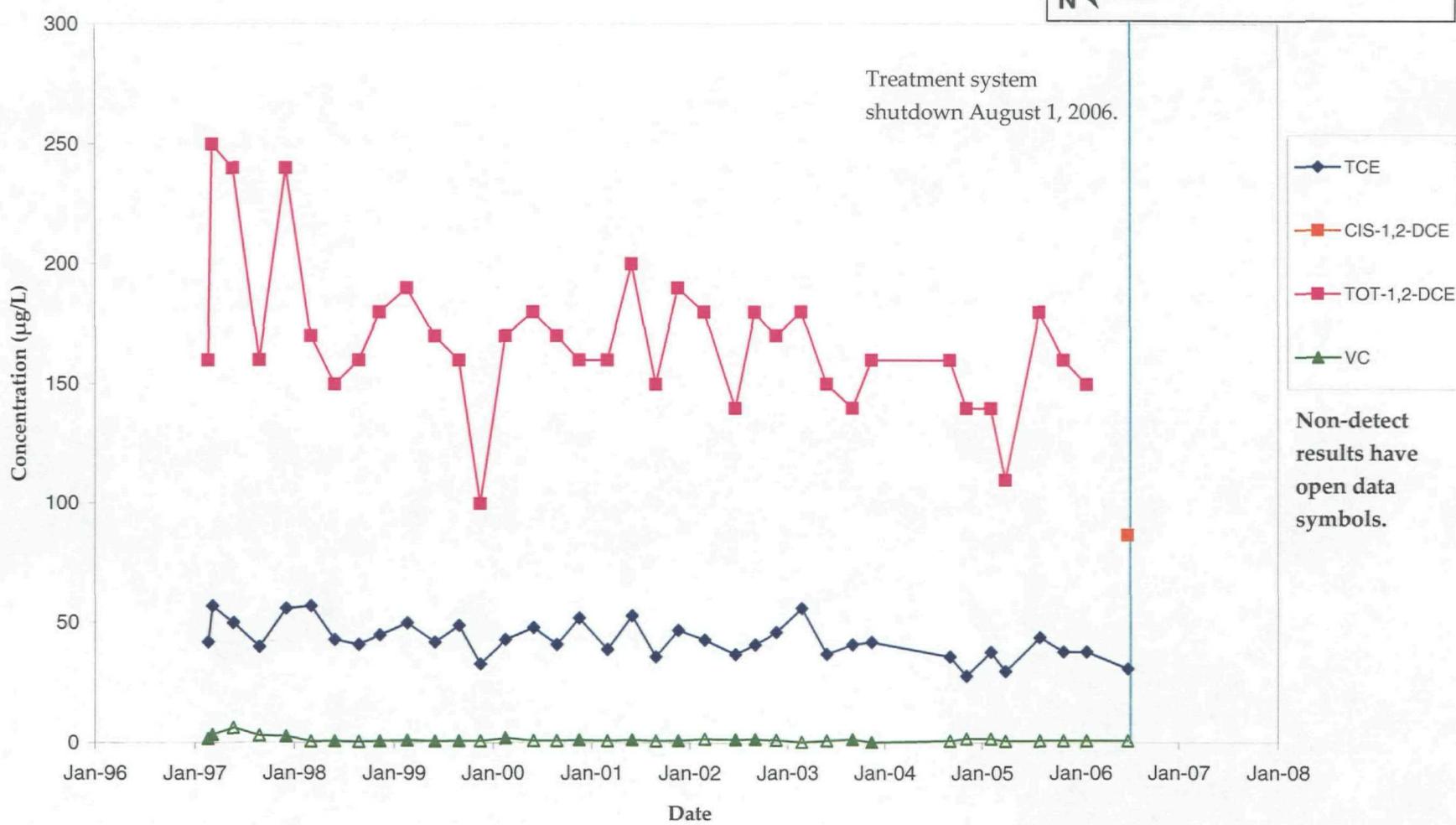
RM-308D

N ←

Treatment system
shutdown August 1, 2006.

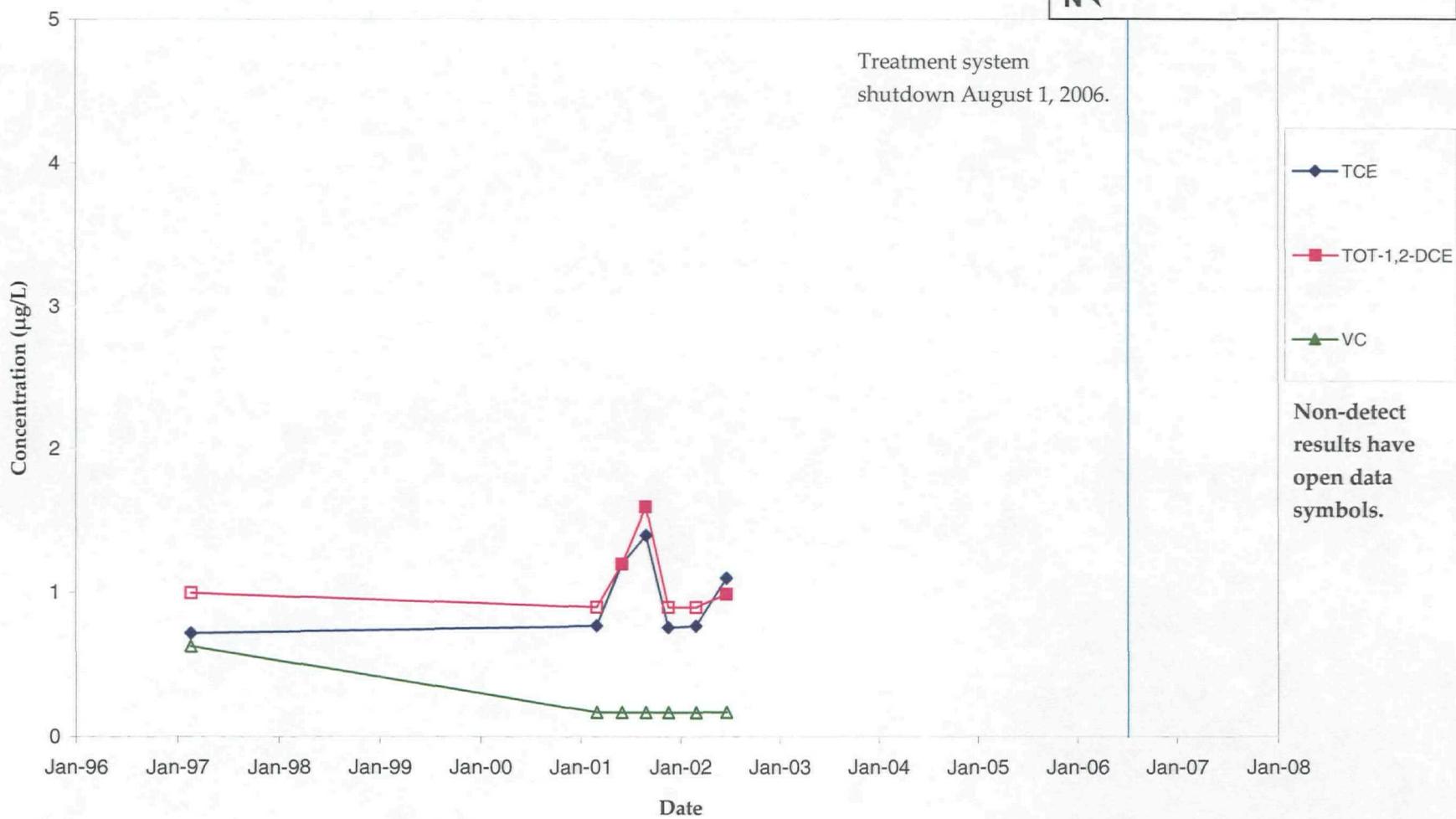


EW-01D
VOC Concentration Trends
Lemberger Landfill



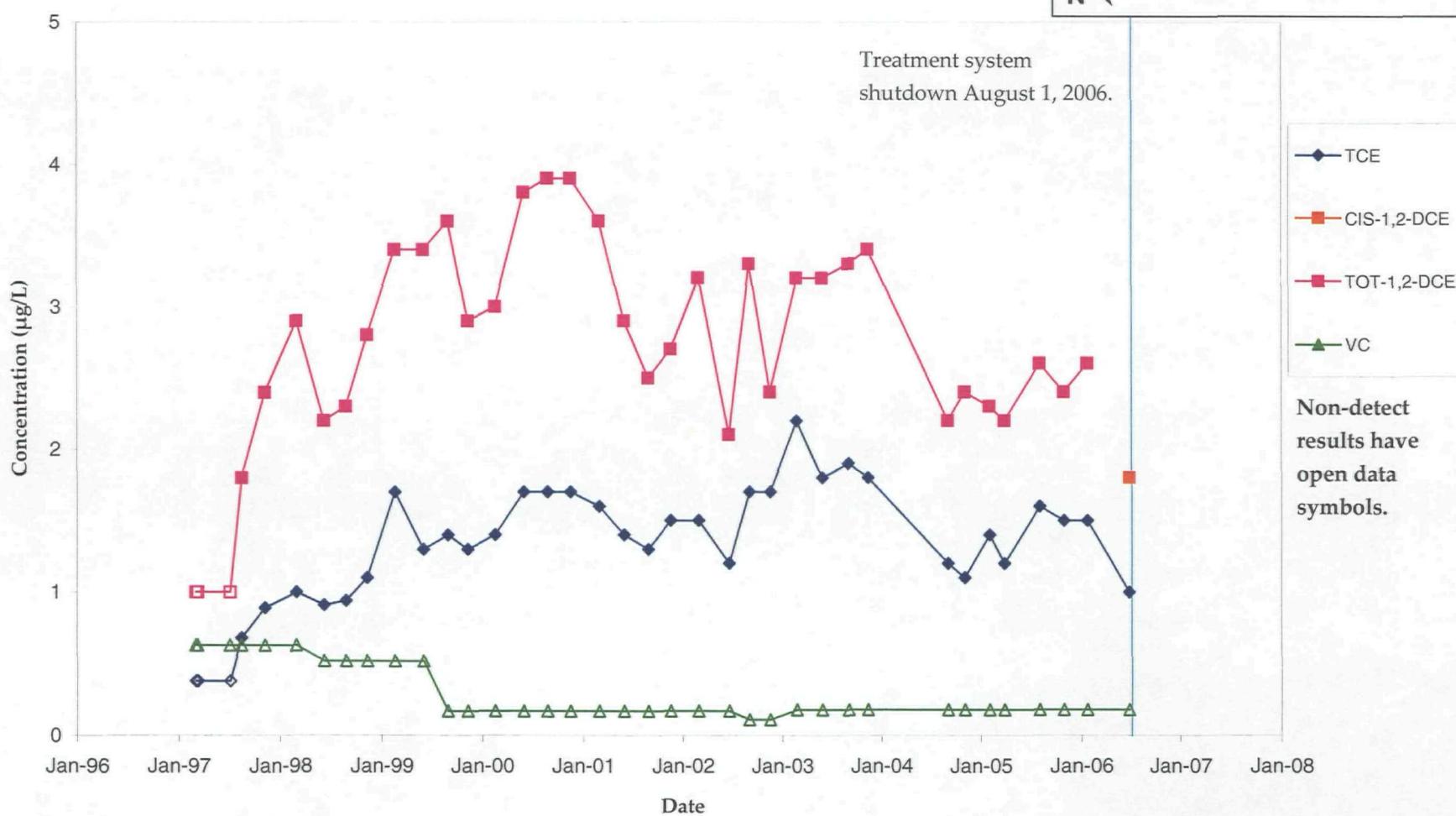
HS

EW-02D
VOC Concentration Trends
Lemberger Landfill

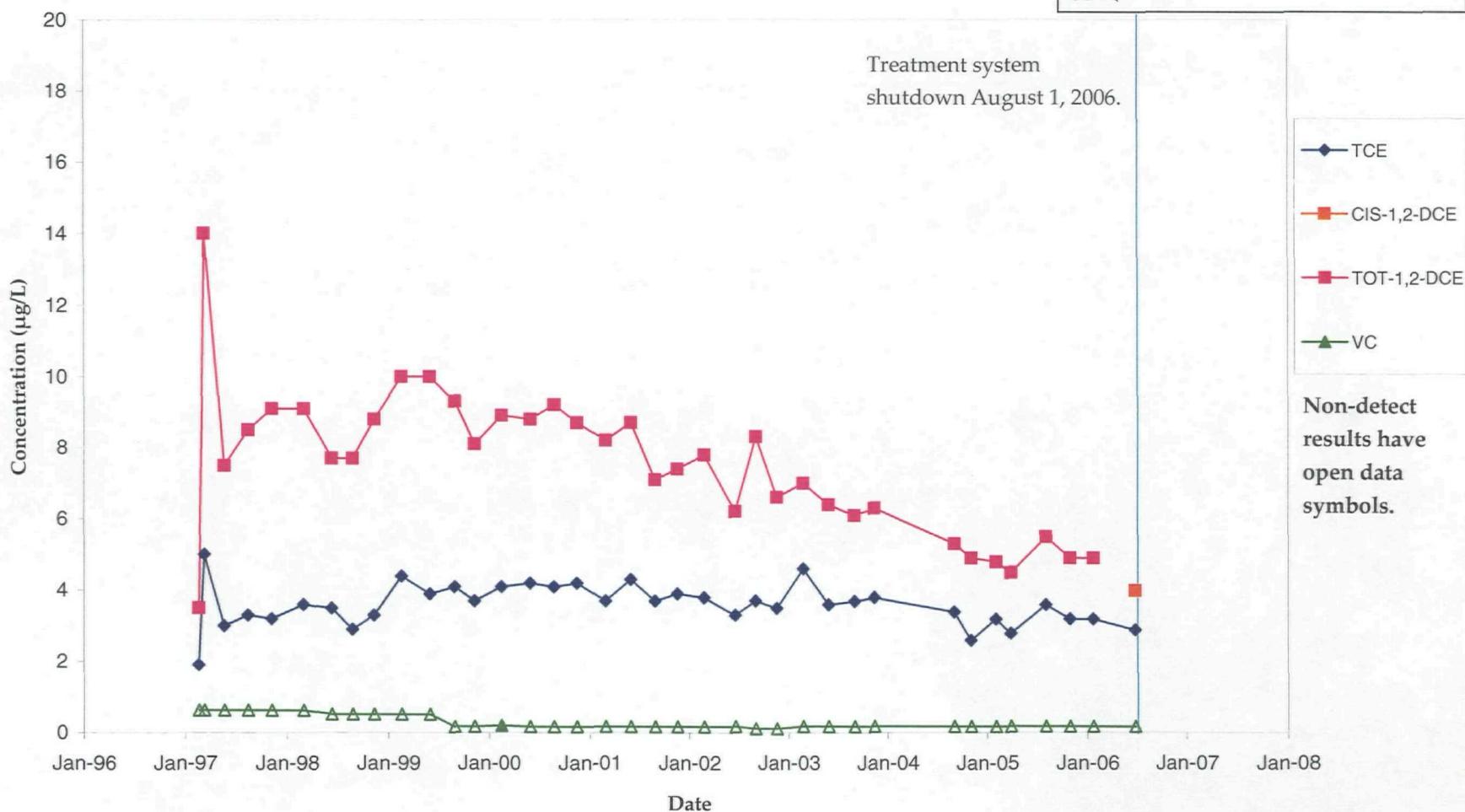


SS

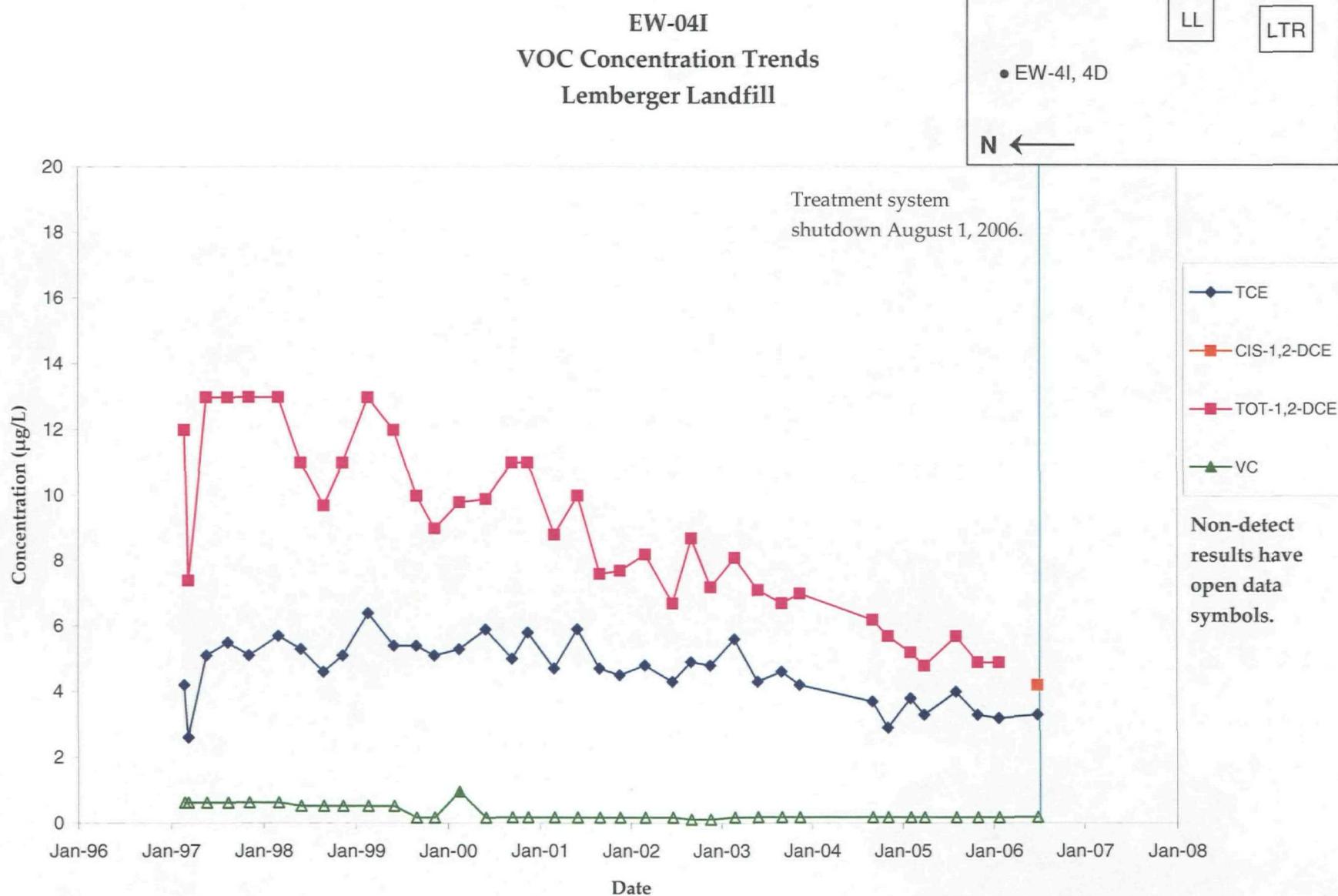
EW-03D
VOC Concentration Trends
Lemberger Landfill

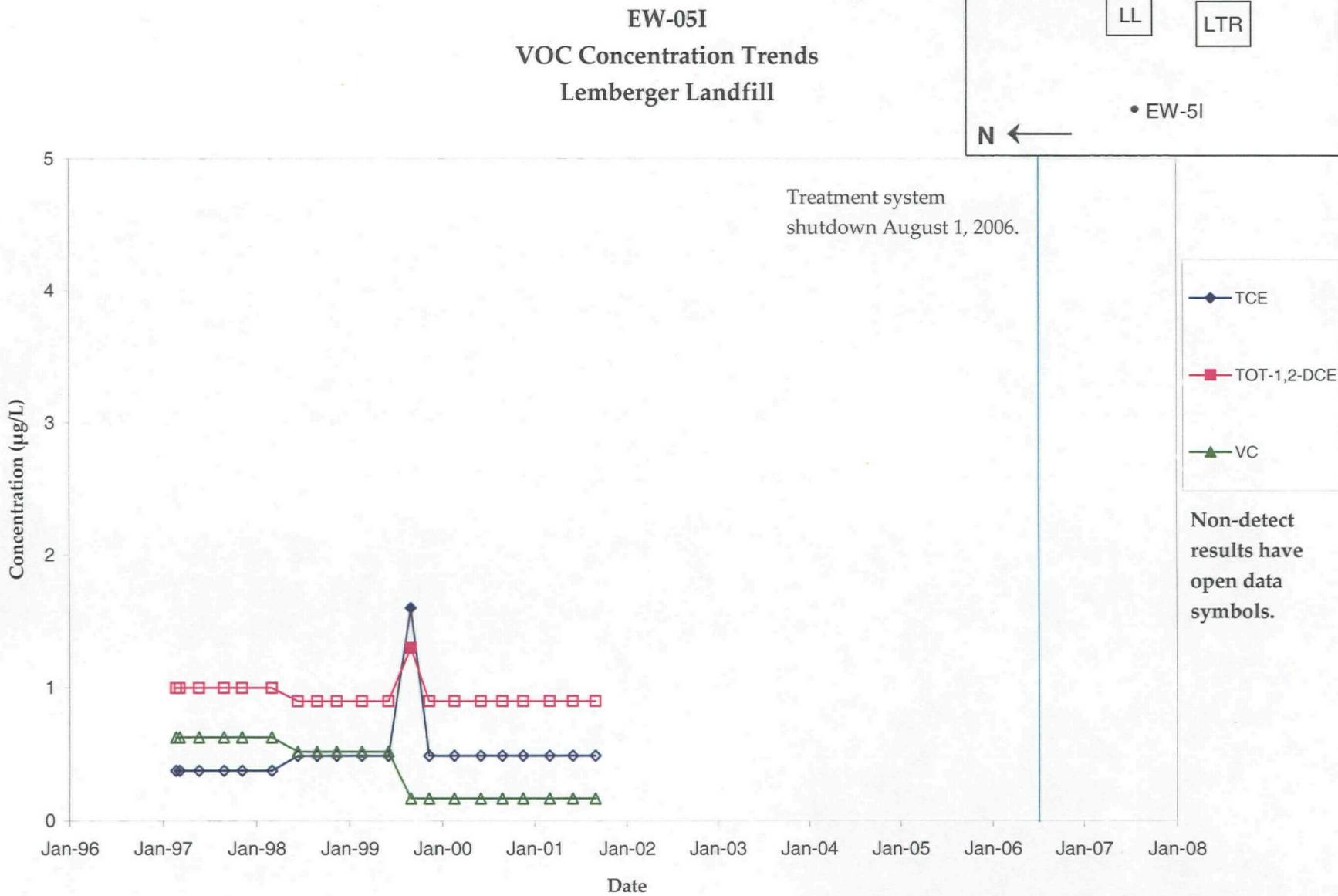


EW-04D
VOC Concentration Trends
Lemberger Landfill



LS





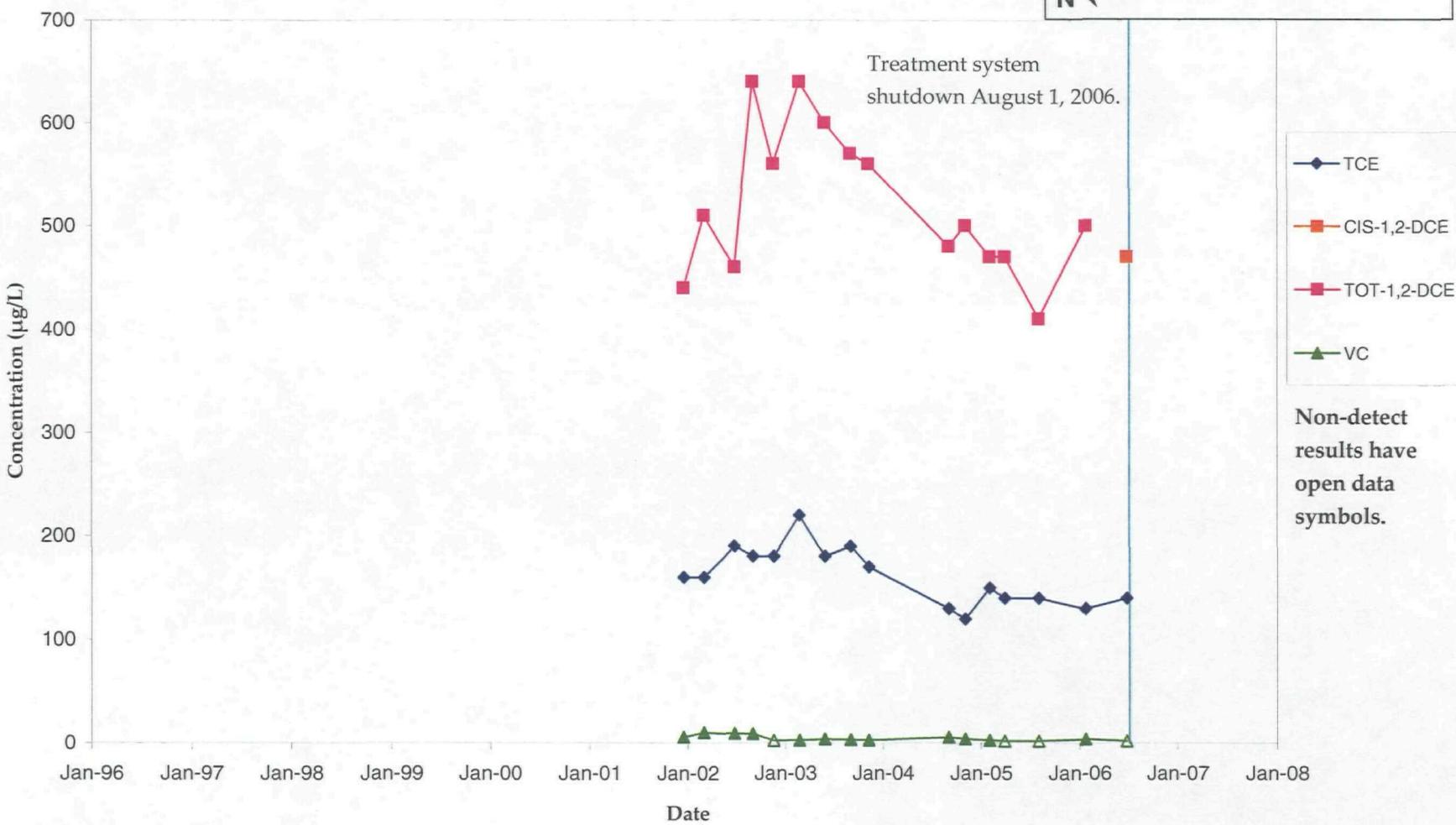
65

EW-06D

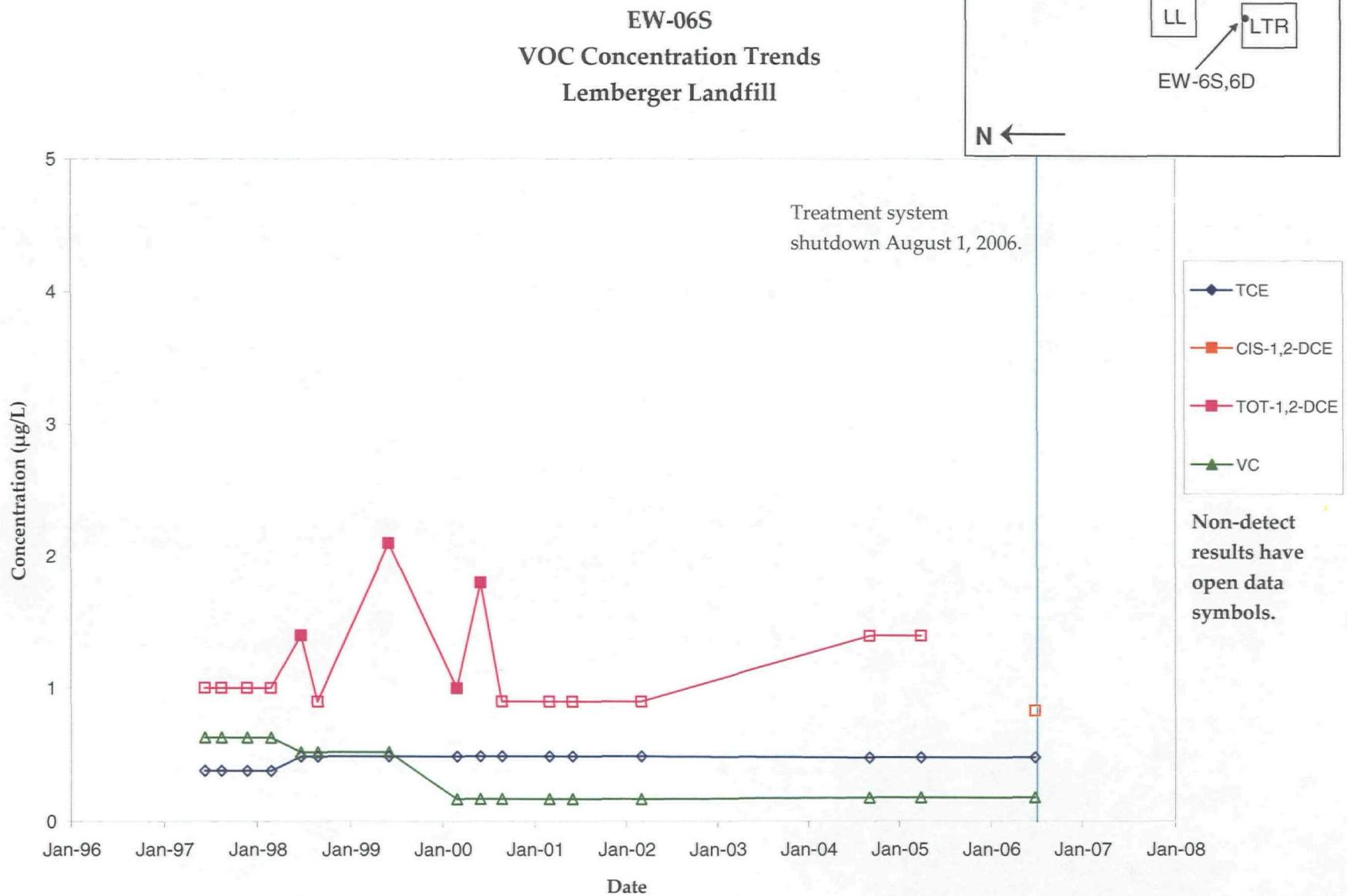
VOC Concentration Trends Lemberger Landfill

LL LTR
EW-6S.6D

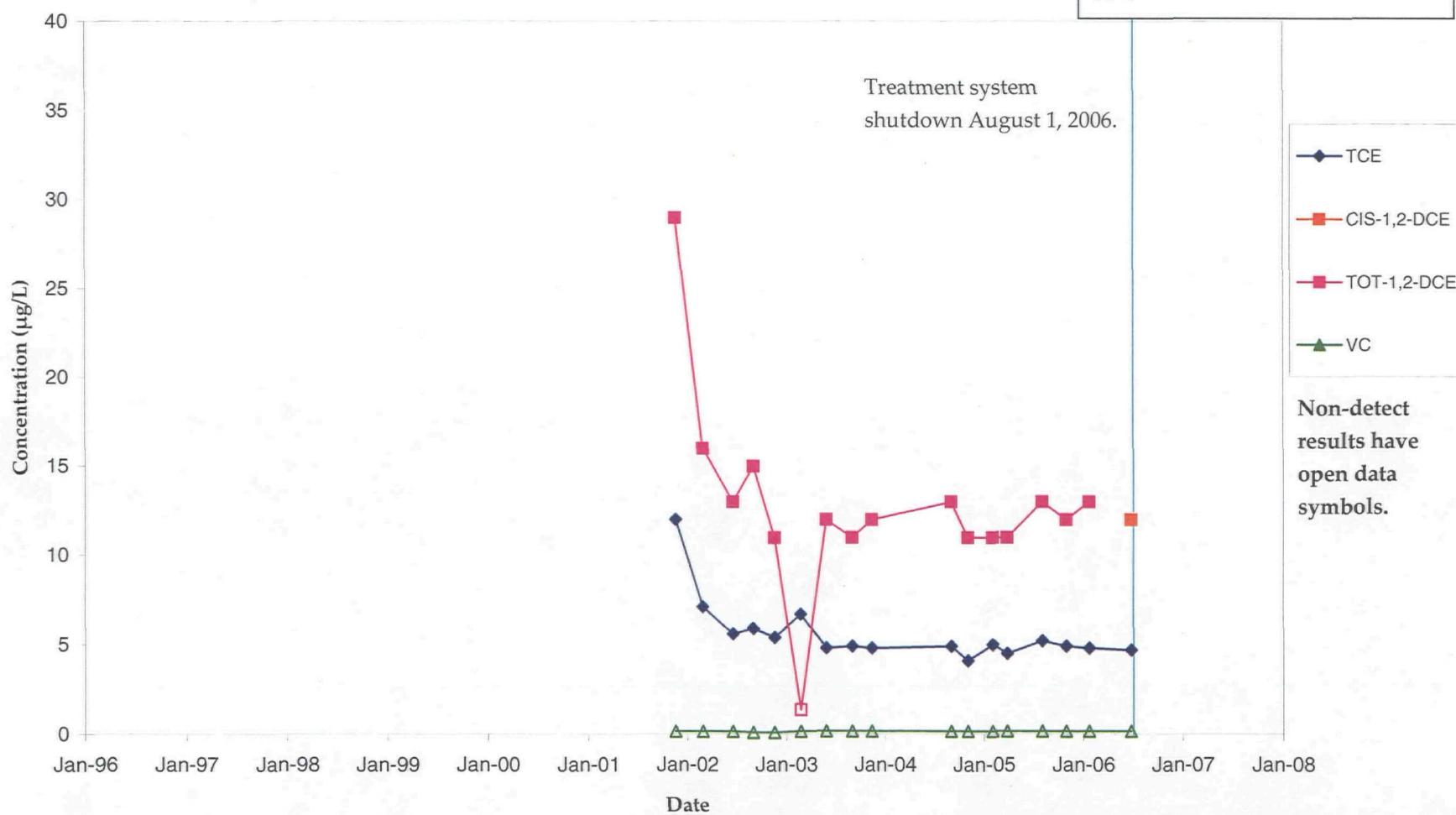
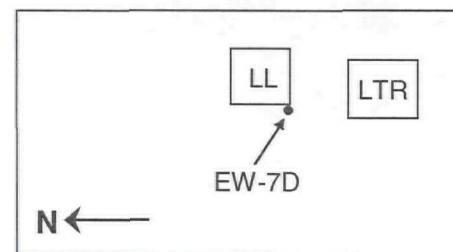
2



Non-detect results have open data symbols.

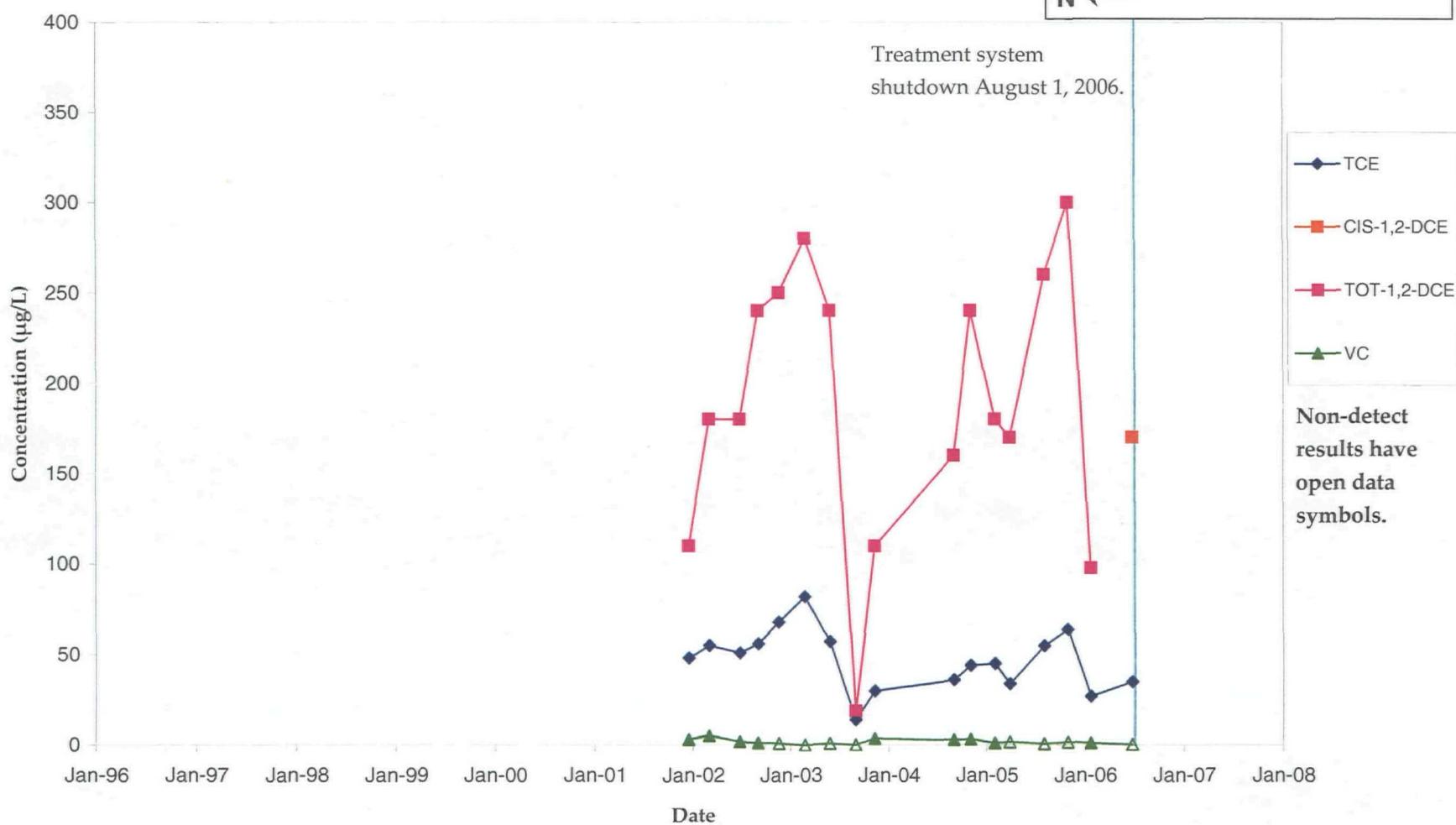


EW-07D
VOC Concentration Trends
Lemberger Landfill

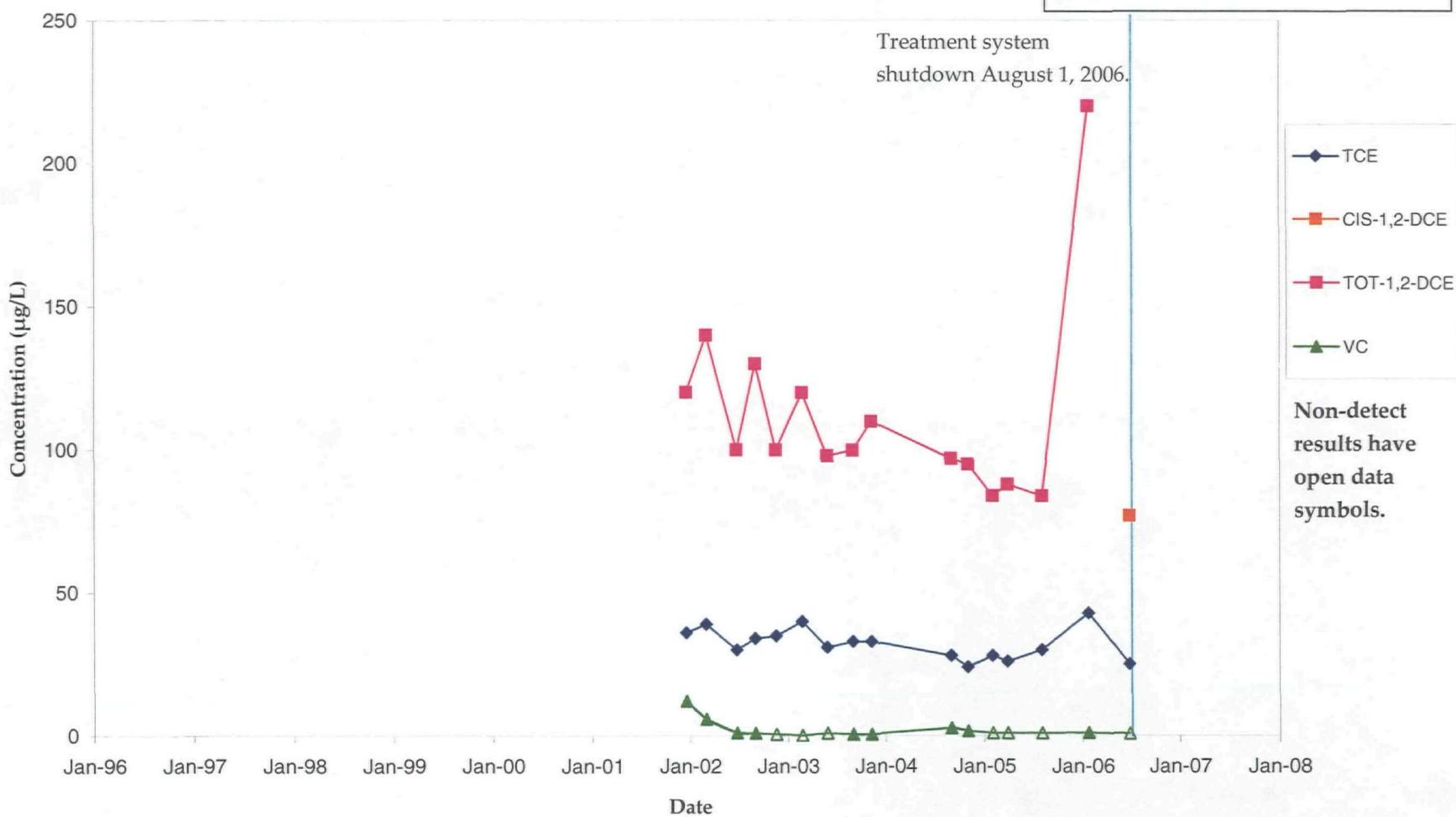
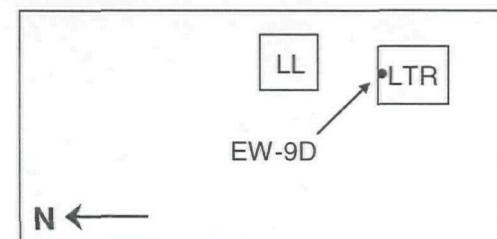


eo

EW-08D
VOC Concentration Trends
Lemberger Landfill

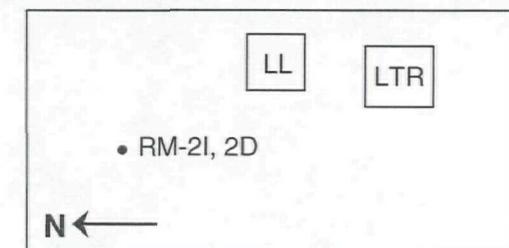
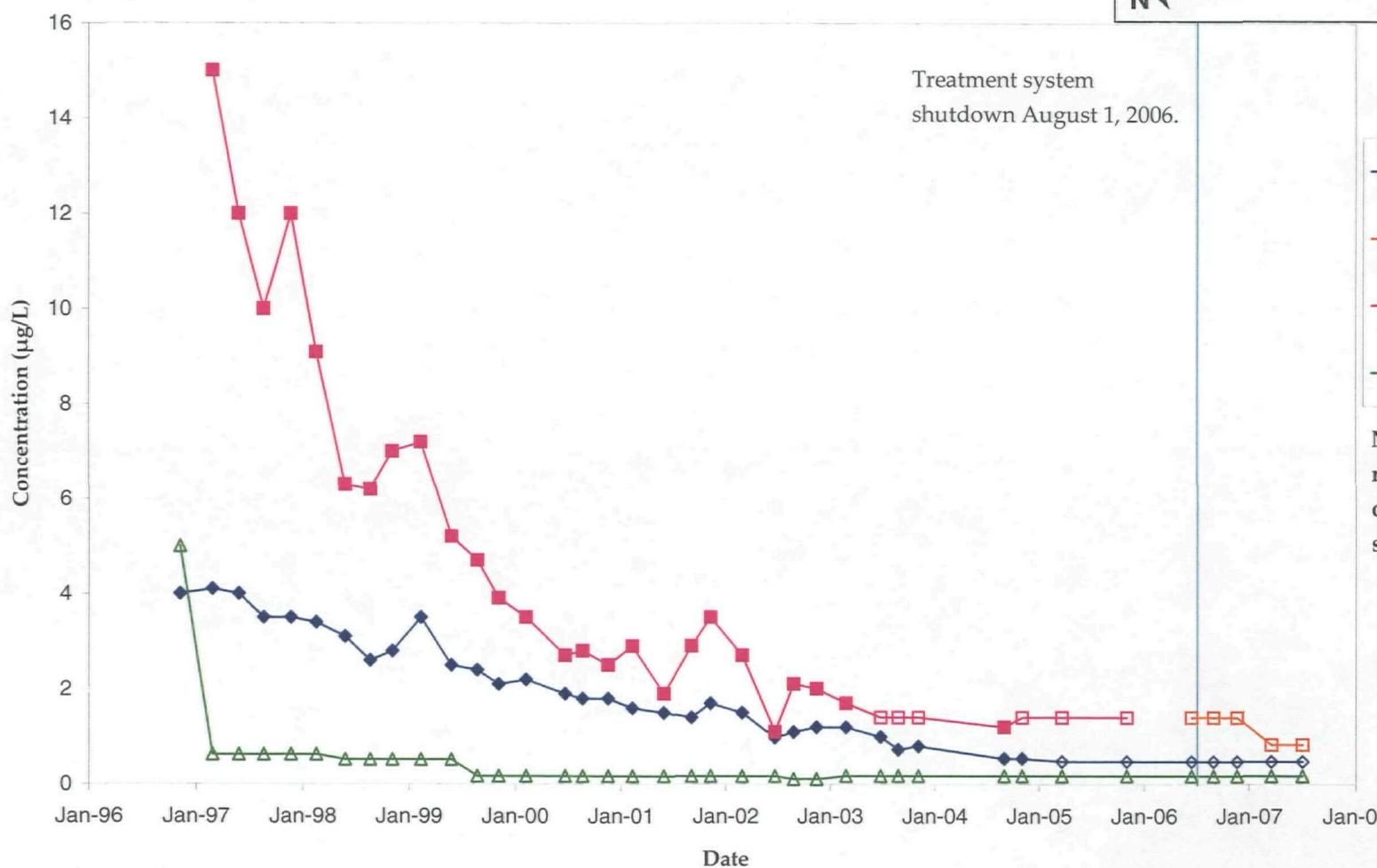


EW-09D
VOC Concentration Trends
Lemberger Landfill



64

RM-002D
VOC Concentration Trends
Lemberger Landfill



RM-002I
VOC Concentration Trends
Lemberger Landfill

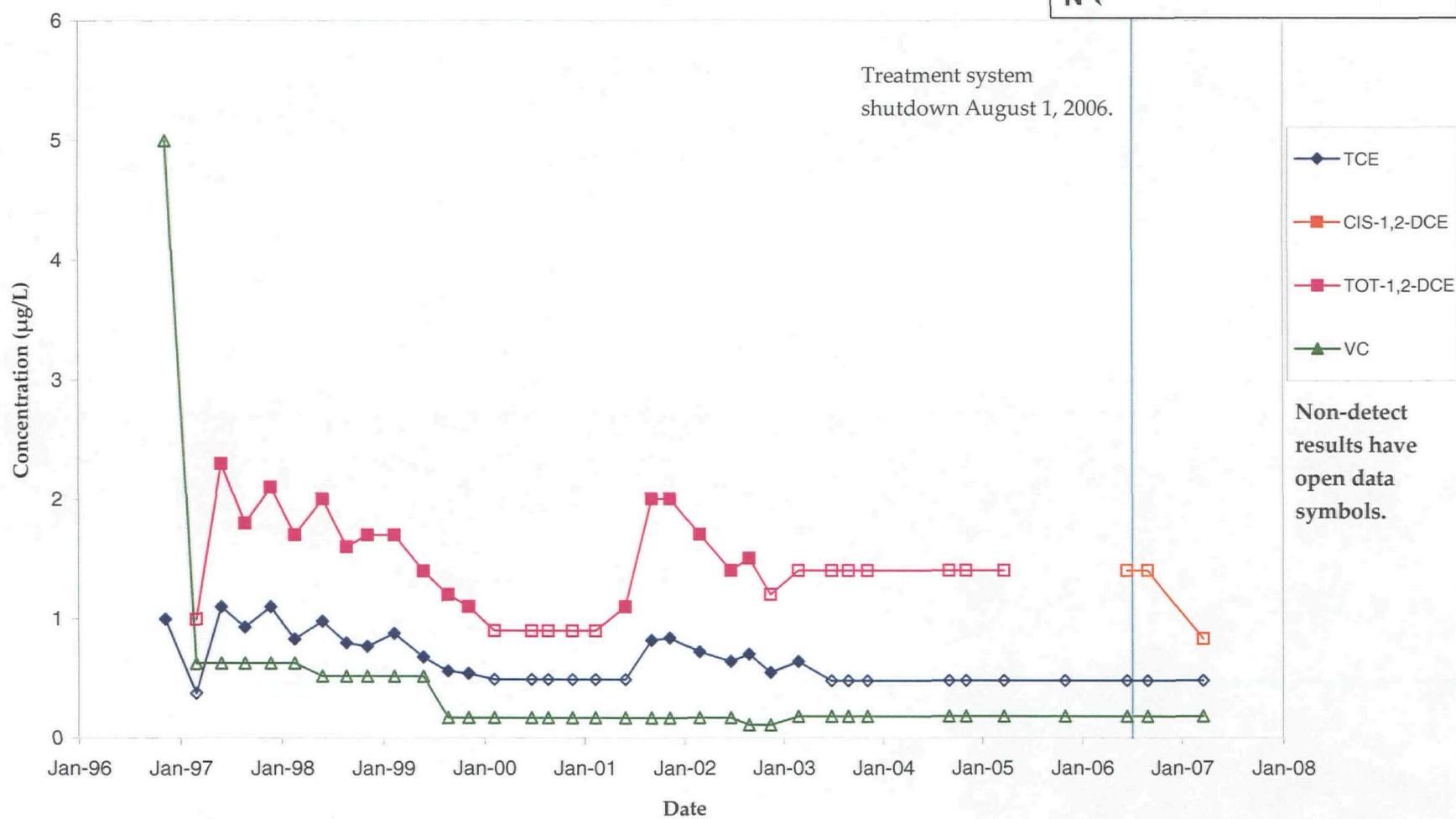
LL

LTR

• RM-2I, 2D

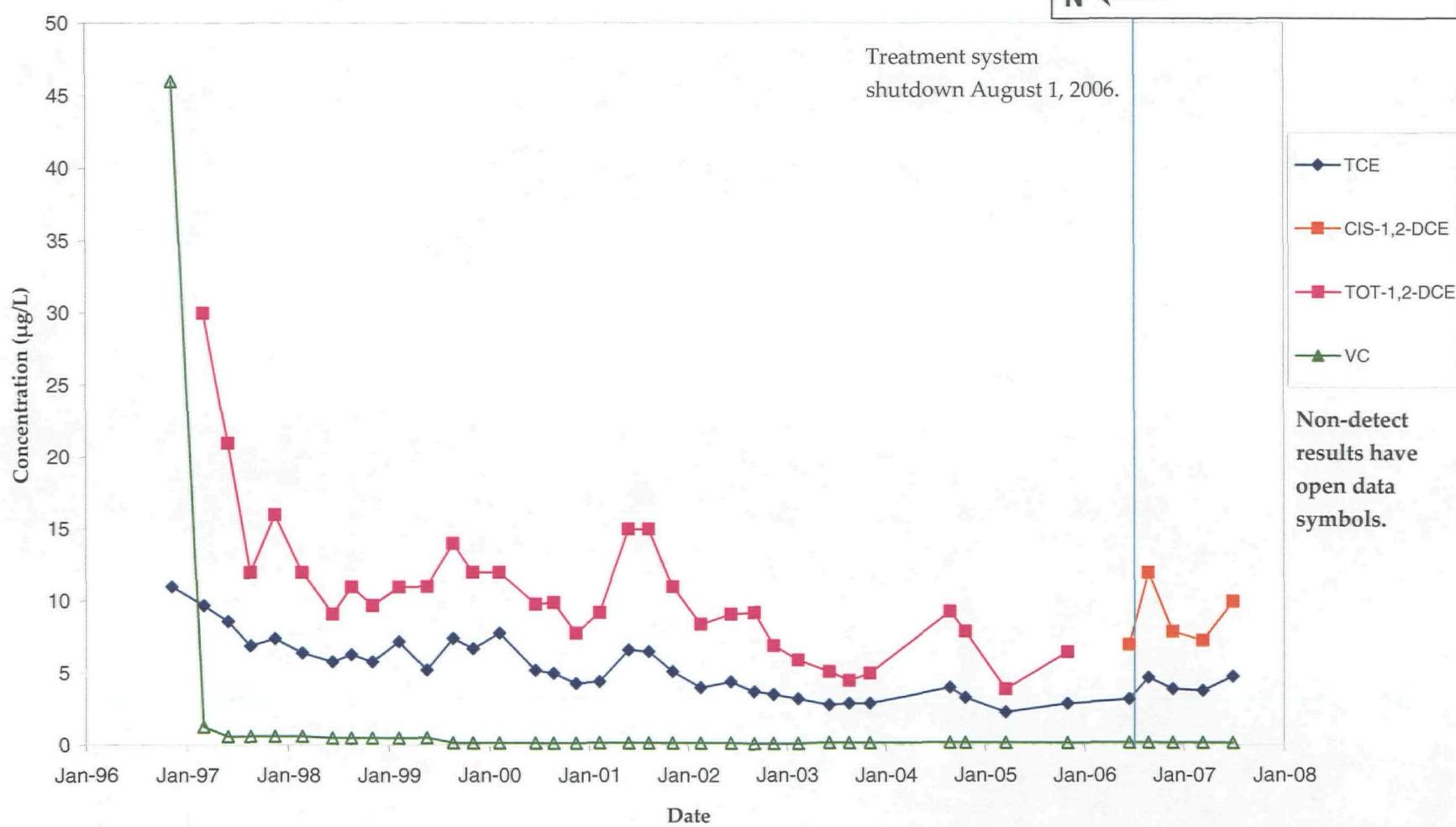
N ←

Treatment system
shutdown August 1, 2006.

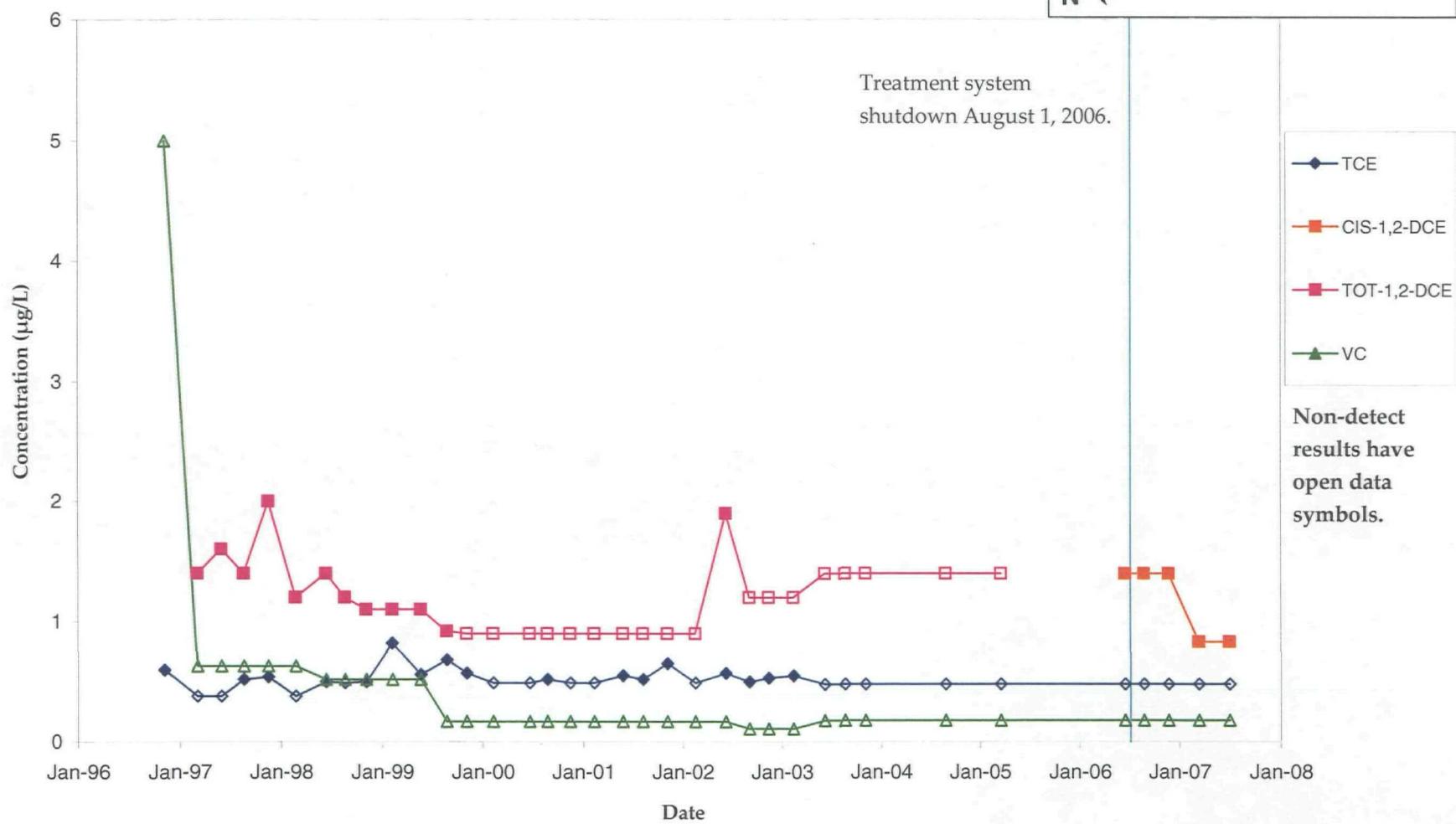
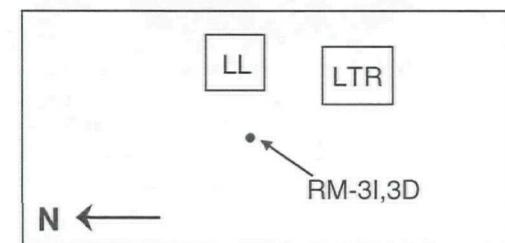


Non-detect
results have
open data
symbols.

RM-003D
VOC Concentration Trends
Lemberger Landfill



RM-003I
VOC Concentration Trends
Lemberger Landfill



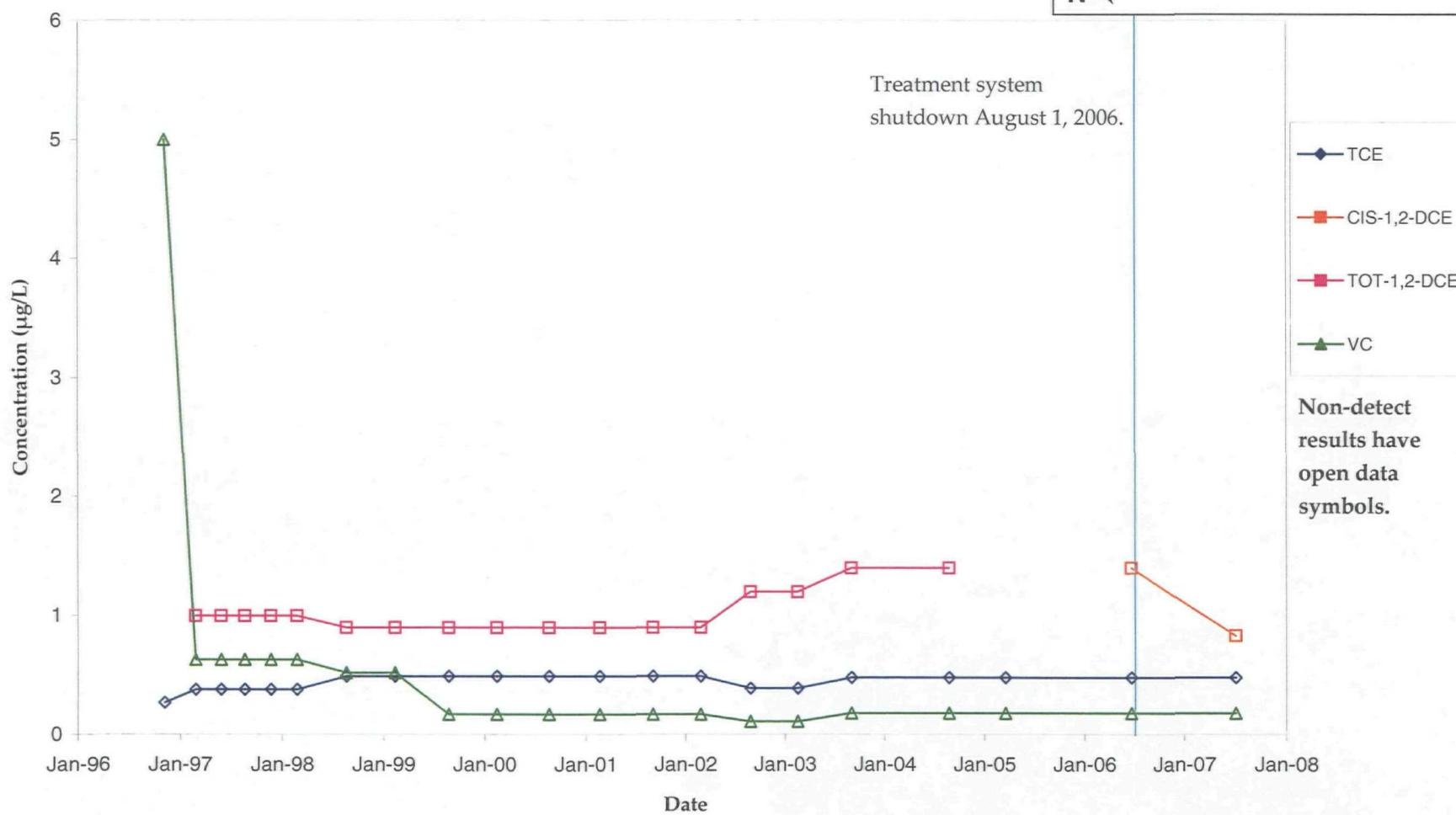
RM-004D
VOC Concentration Trends
Lemberger Landfill

RM-4S, 4D*

LL

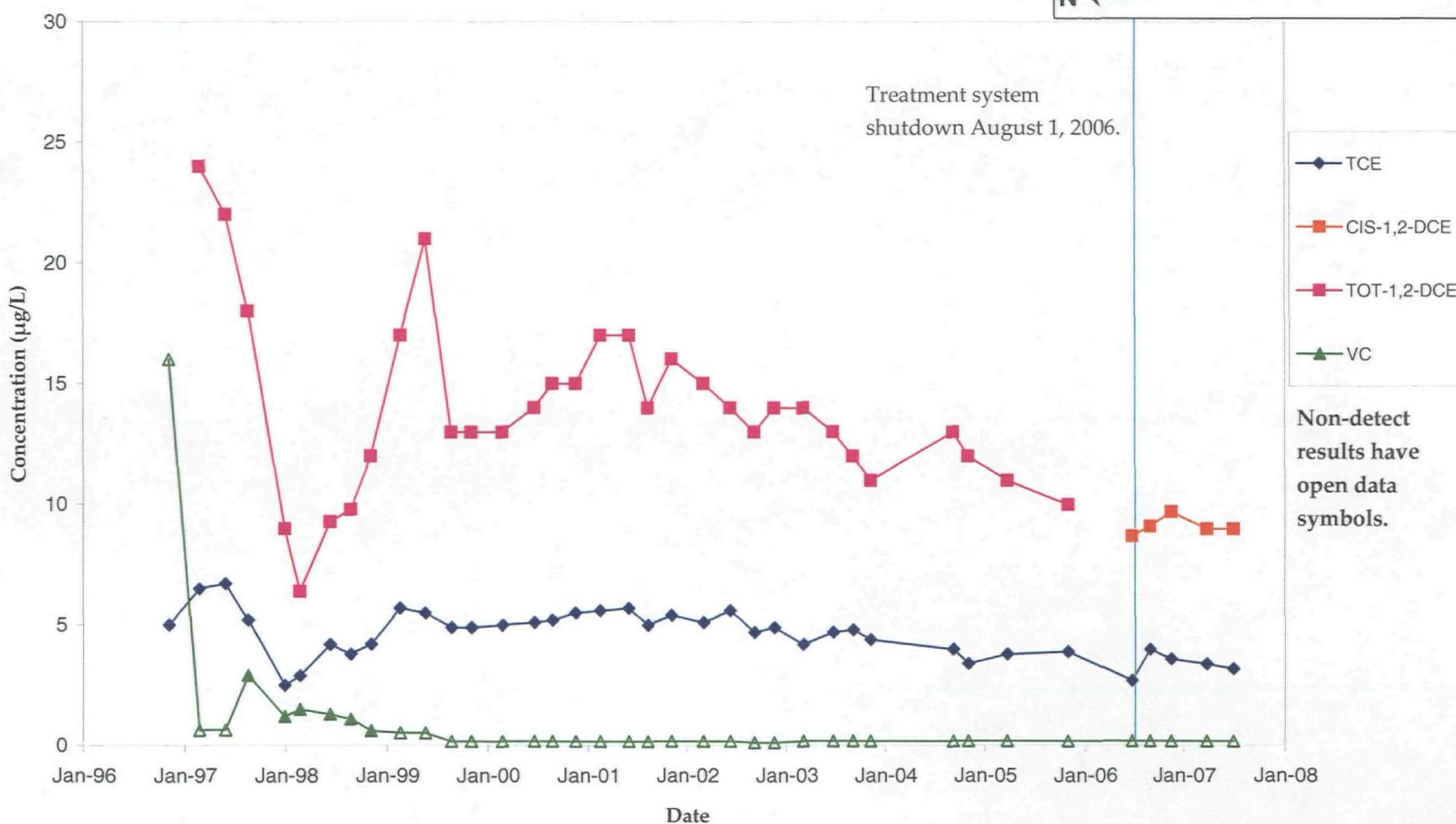
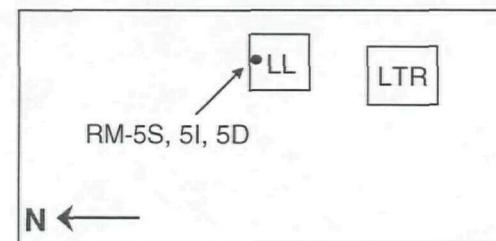
LTR

N ←



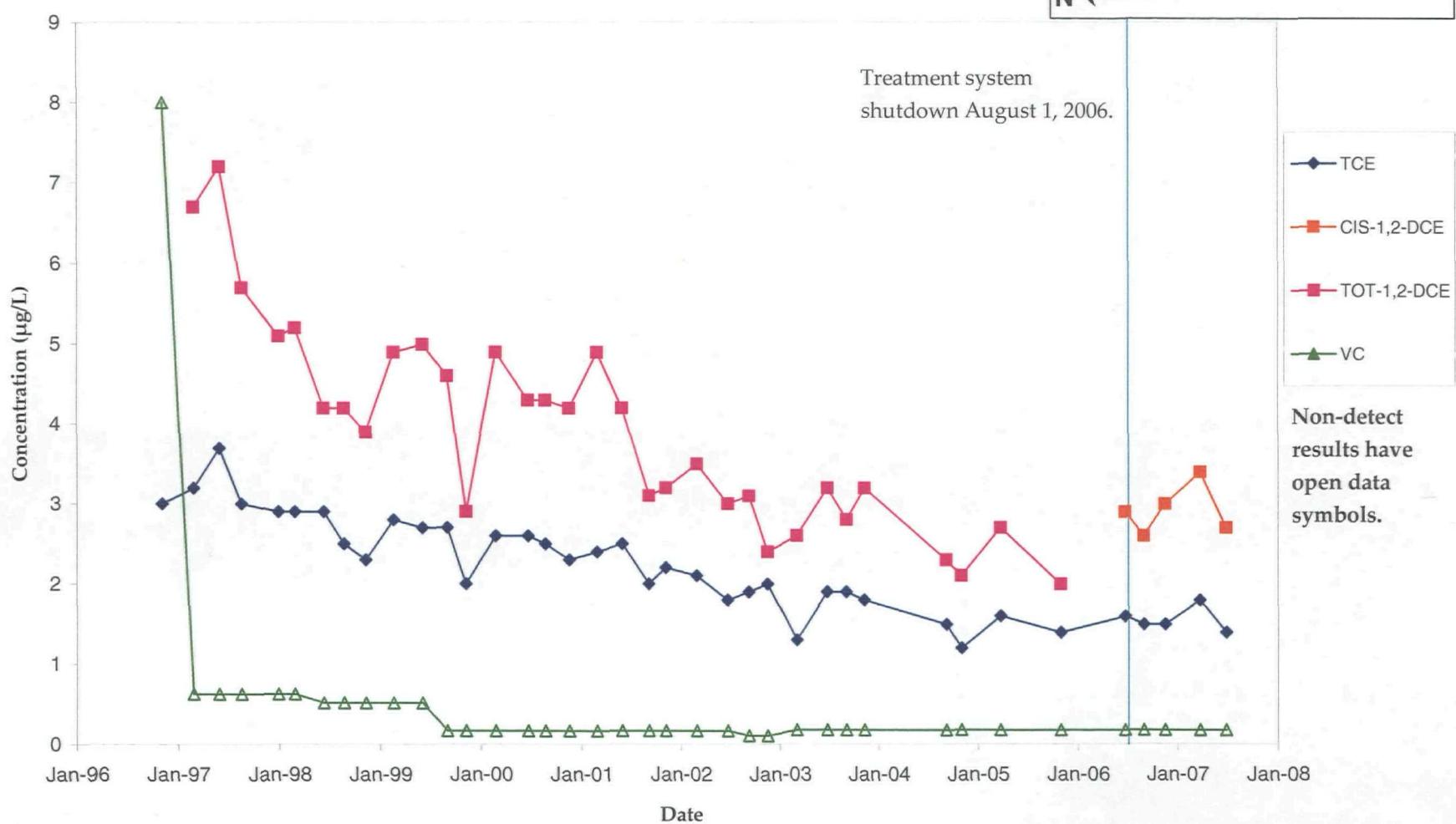
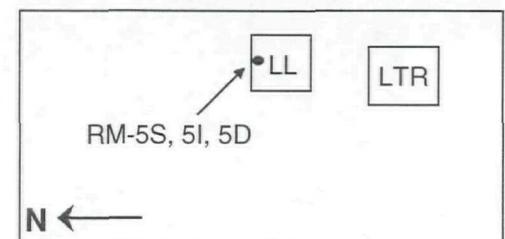
b9

RM-005D
VOC Concentration Trends
Lemberger Landfill

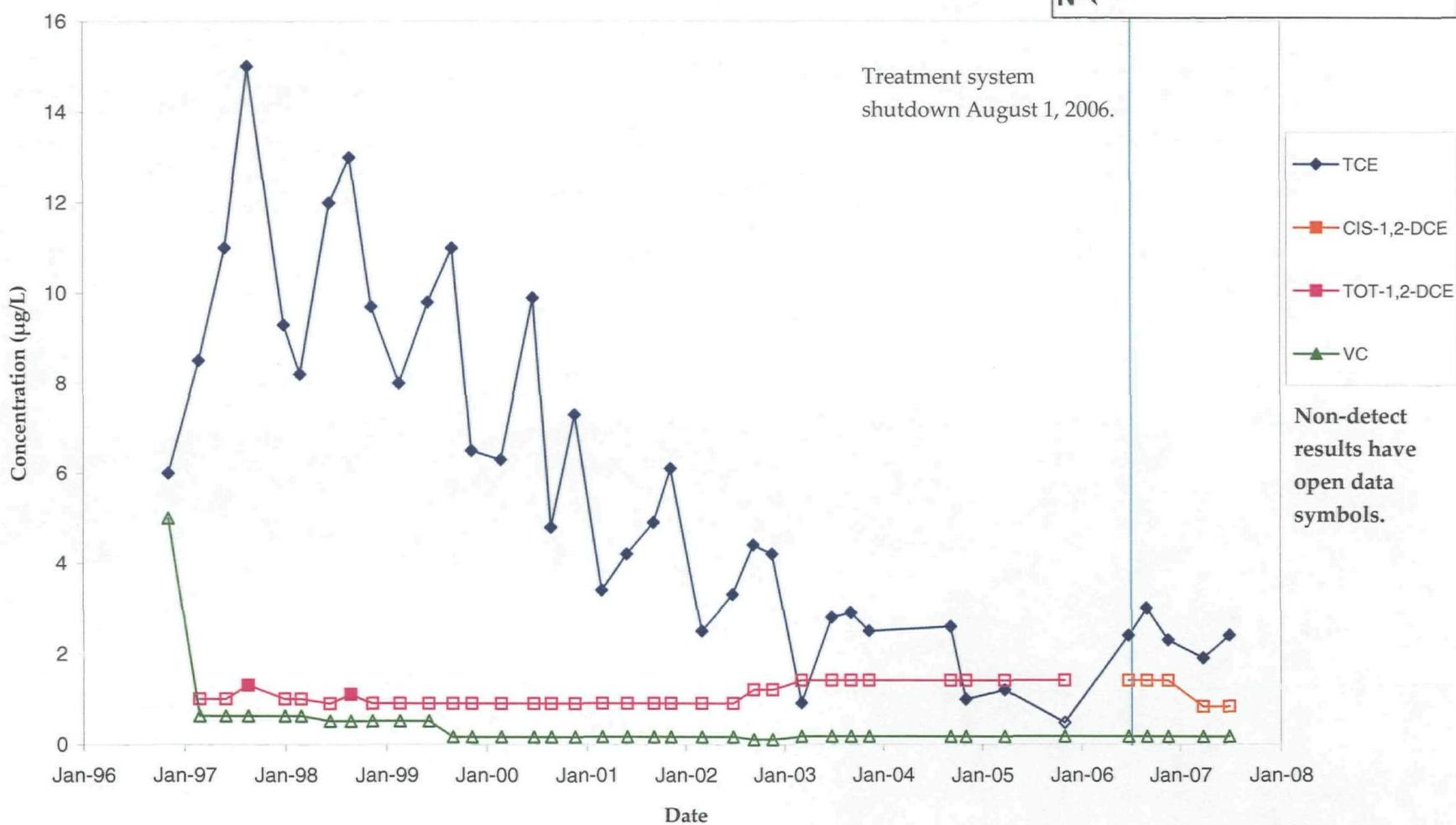
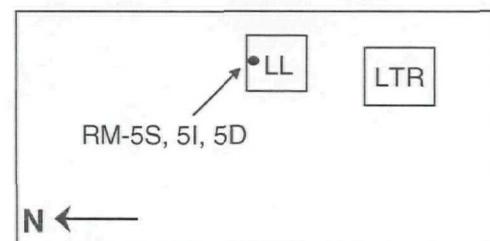


DL

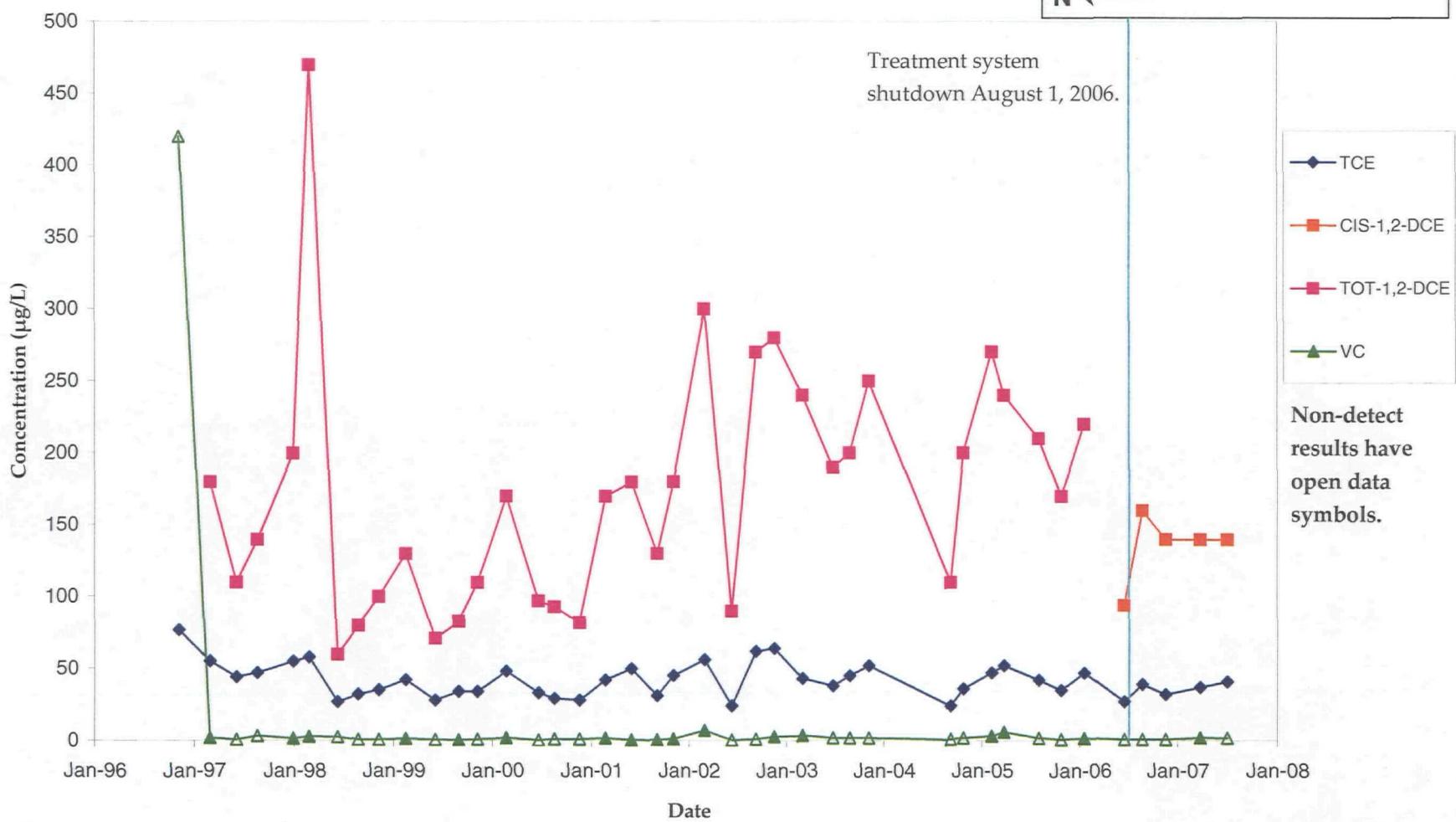
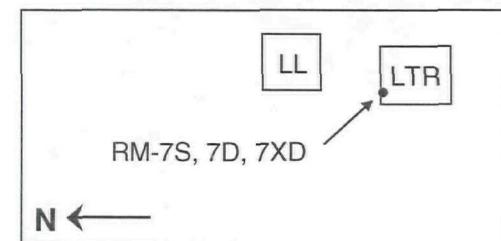
RM-005I
VOC Concentration Trends
Lemberger Landfill



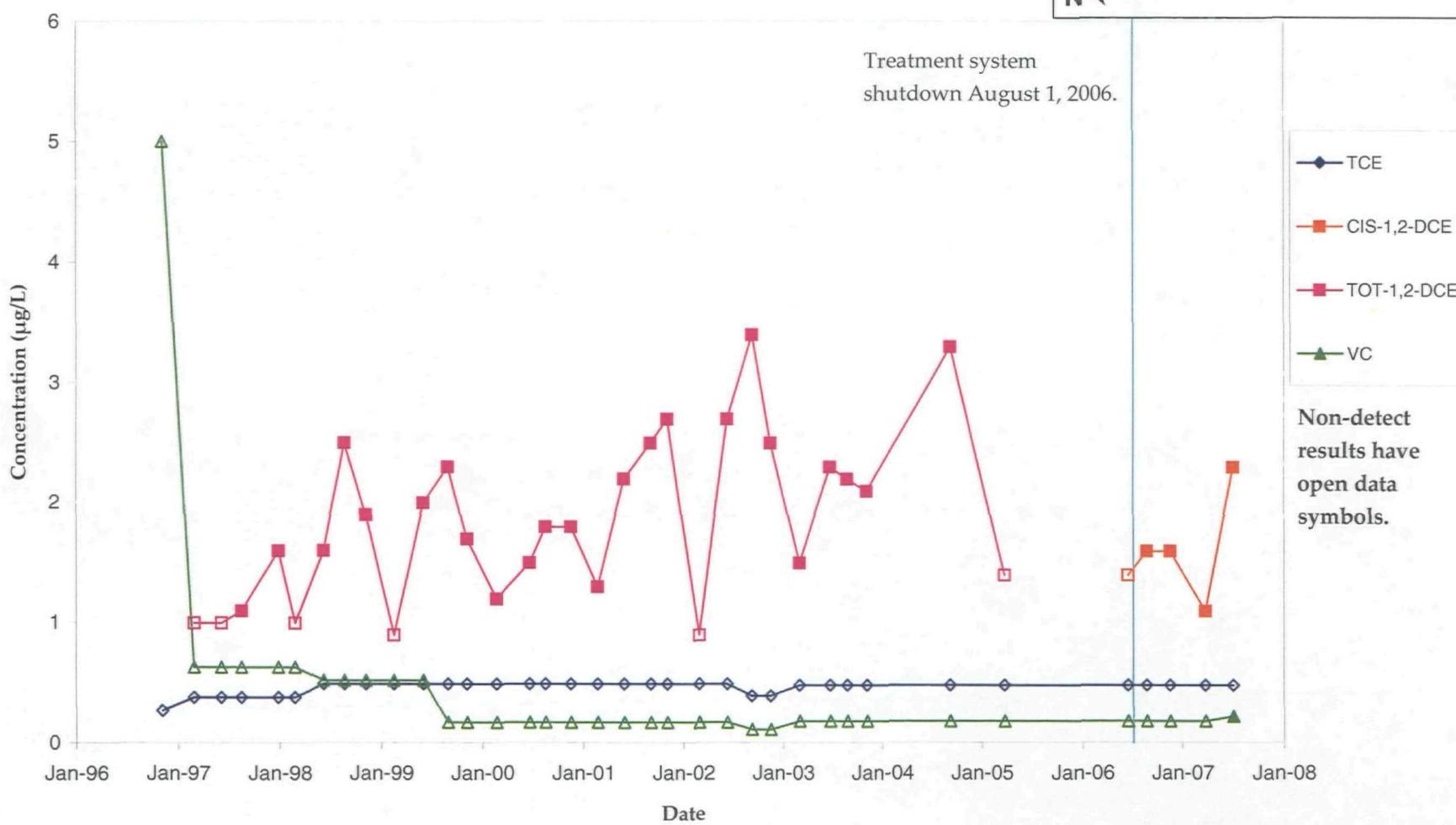
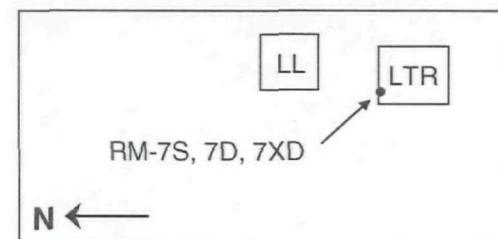
RM-005S
VOC Concentration Trends
Lemberger Landfill



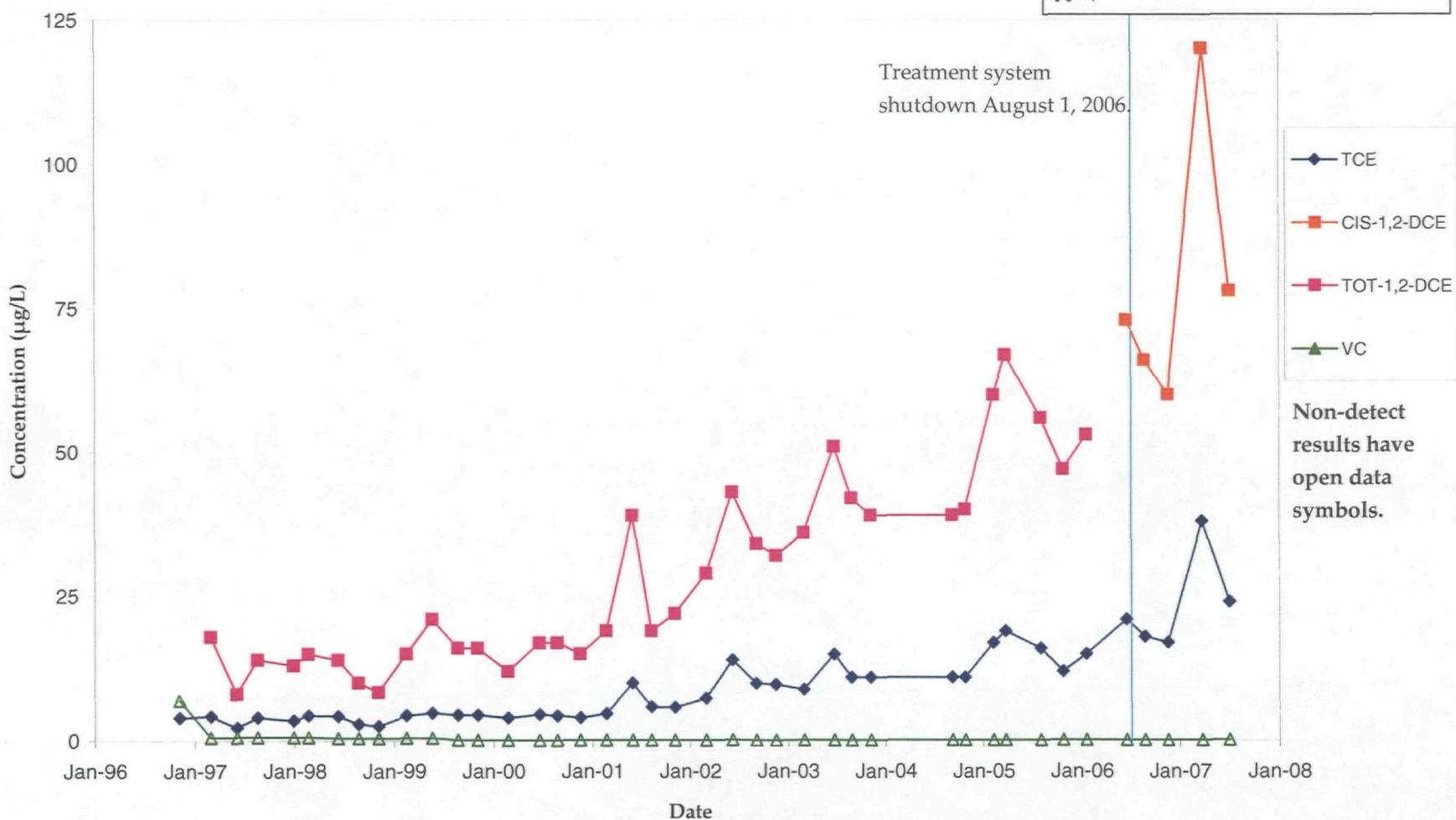
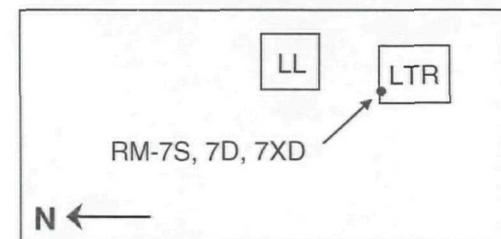
RM-007D
VOC Concentration Trends
Lemberger Landfill



RM-007S
VOC Concentration Trends
Lemberger Landfill

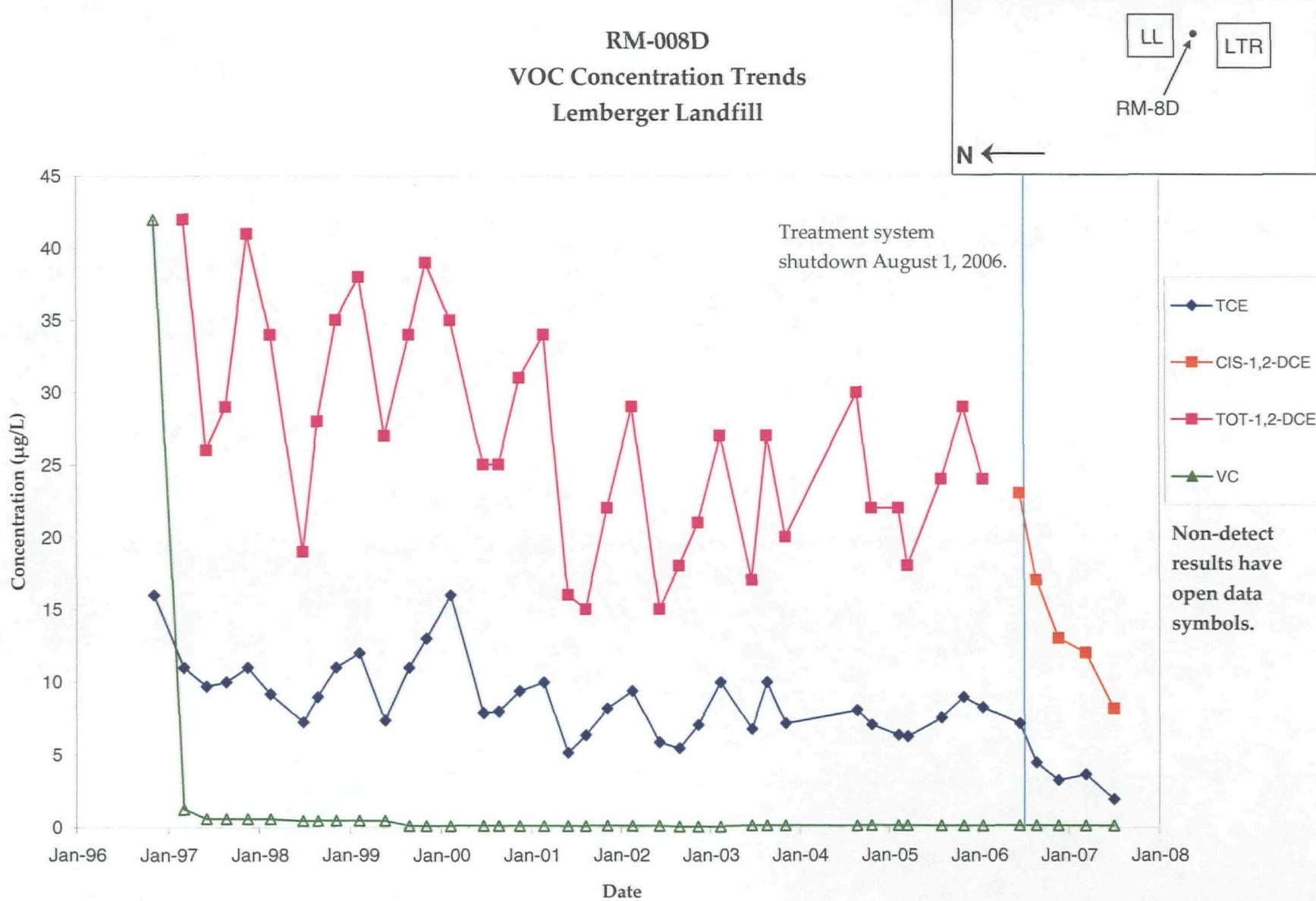


RM-007XD
VOC Concentration Trends
Lemberger Landfill

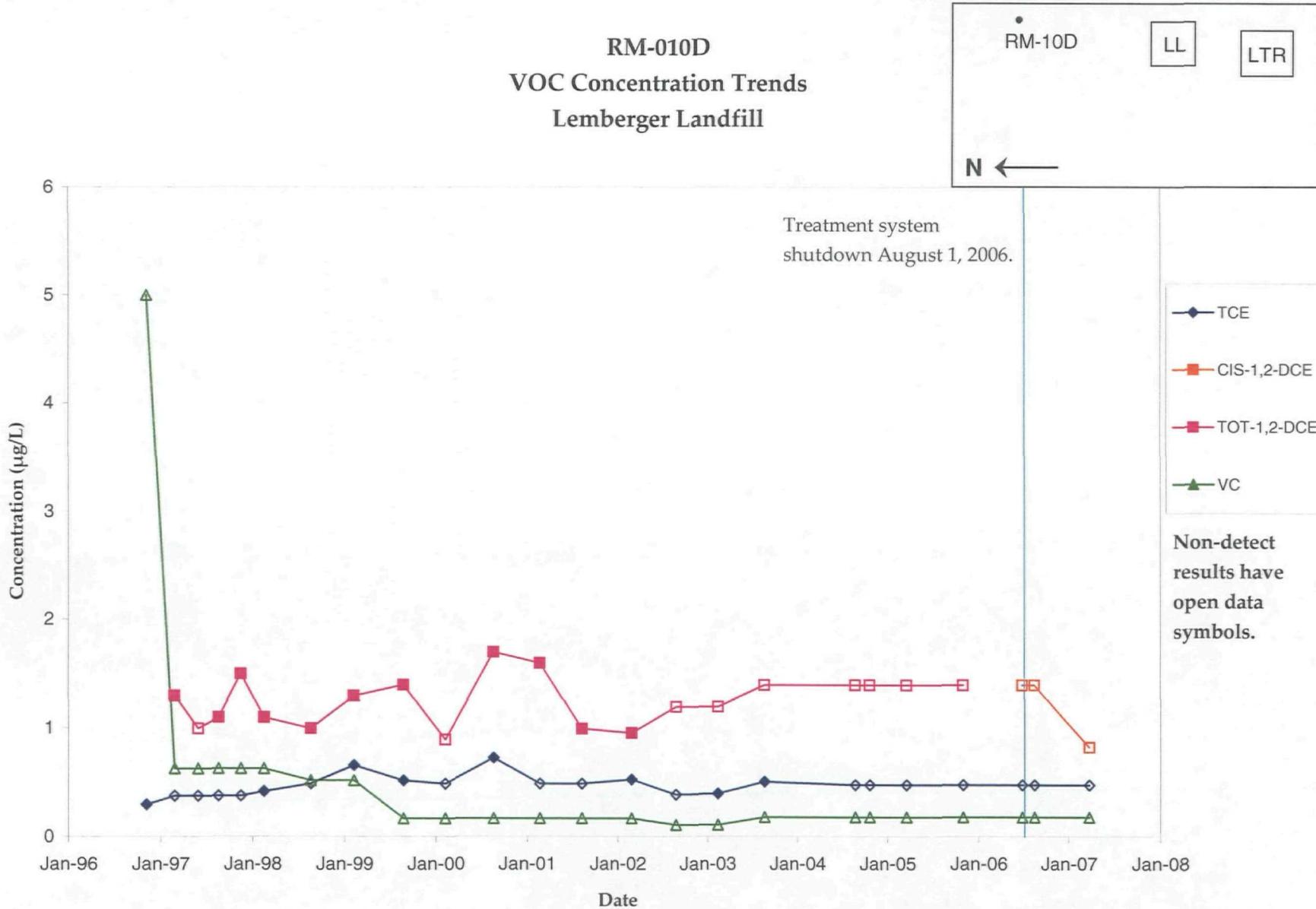


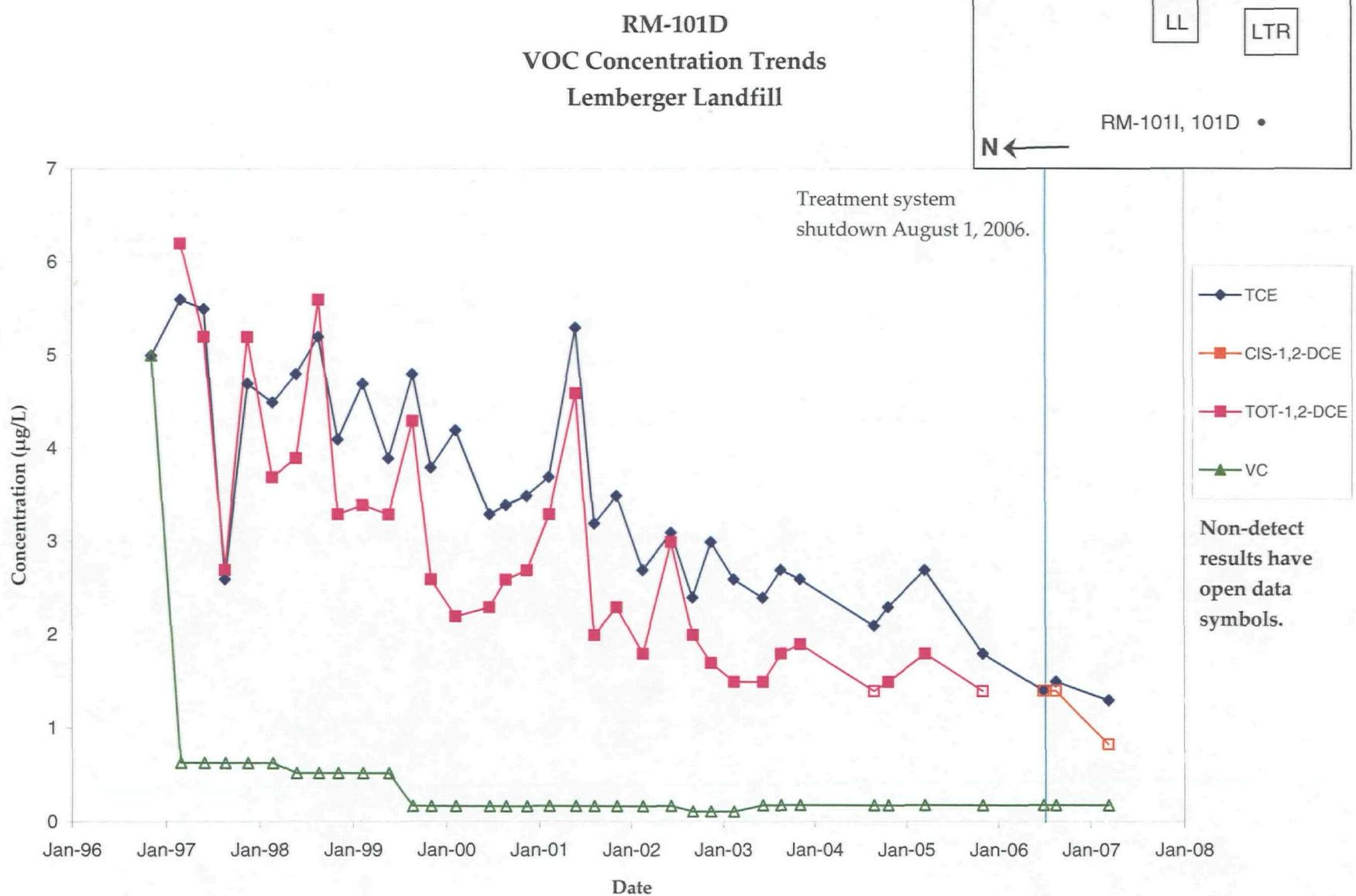
SL

RM-008D
VOC Concentration Trends
Lemberger Landfill



RM-010D
VOC Concentration Trends
Lemberger Landfill





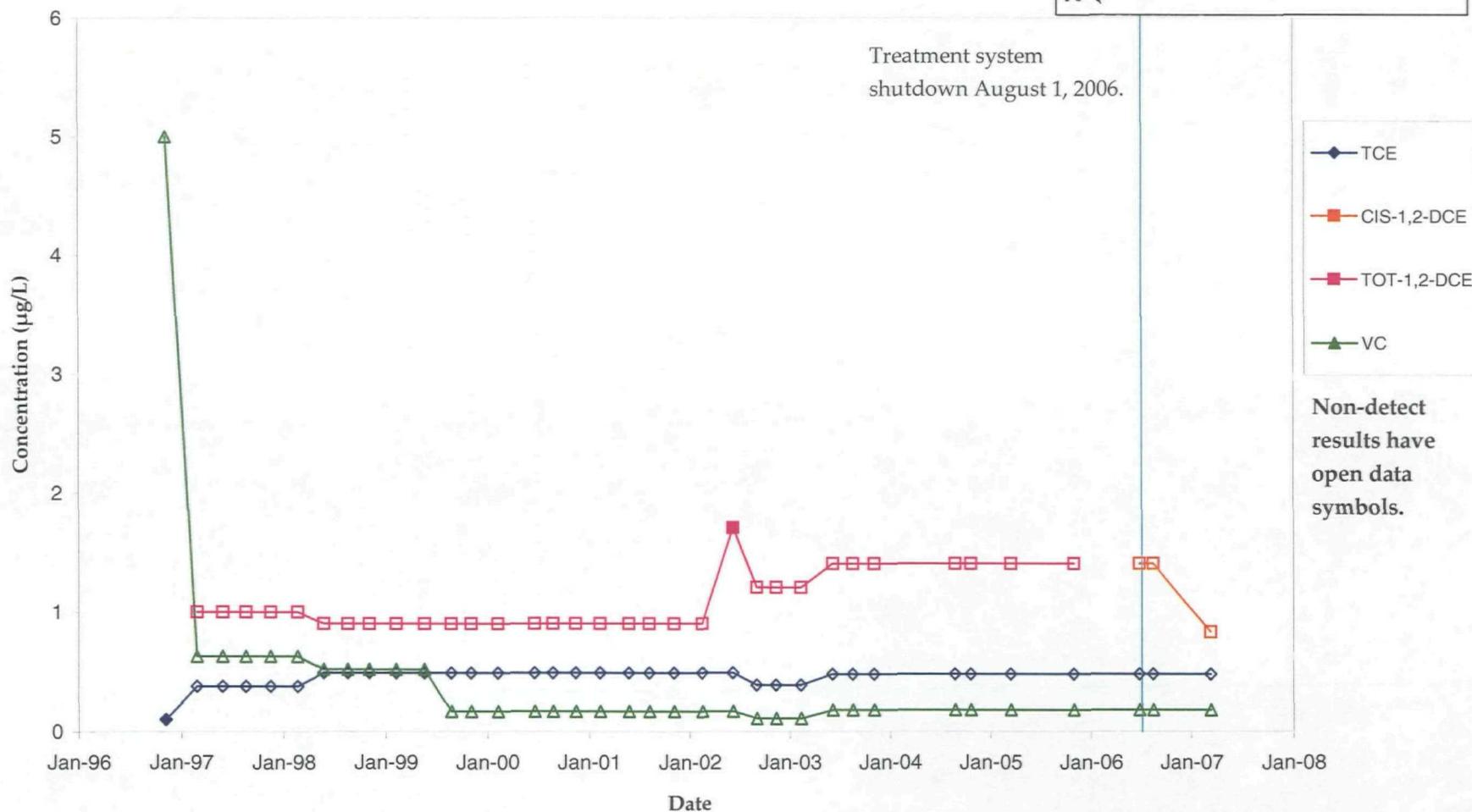
RM-101I
VOC Concentration Trends
Lemberger Landfill

LL LTR

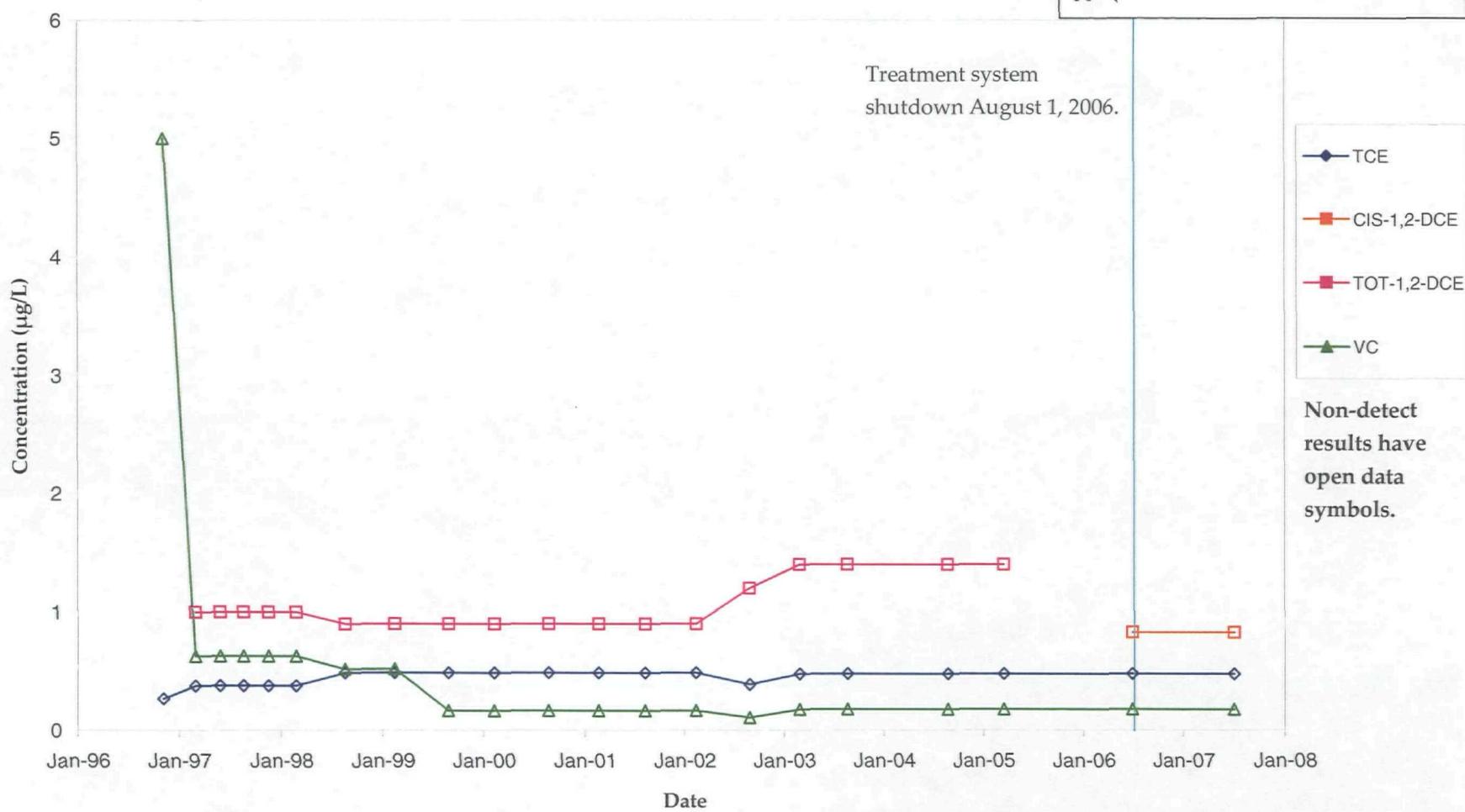
RM-101I, 101D •

N ←

Treatment system
shutdown August 1, 2006.

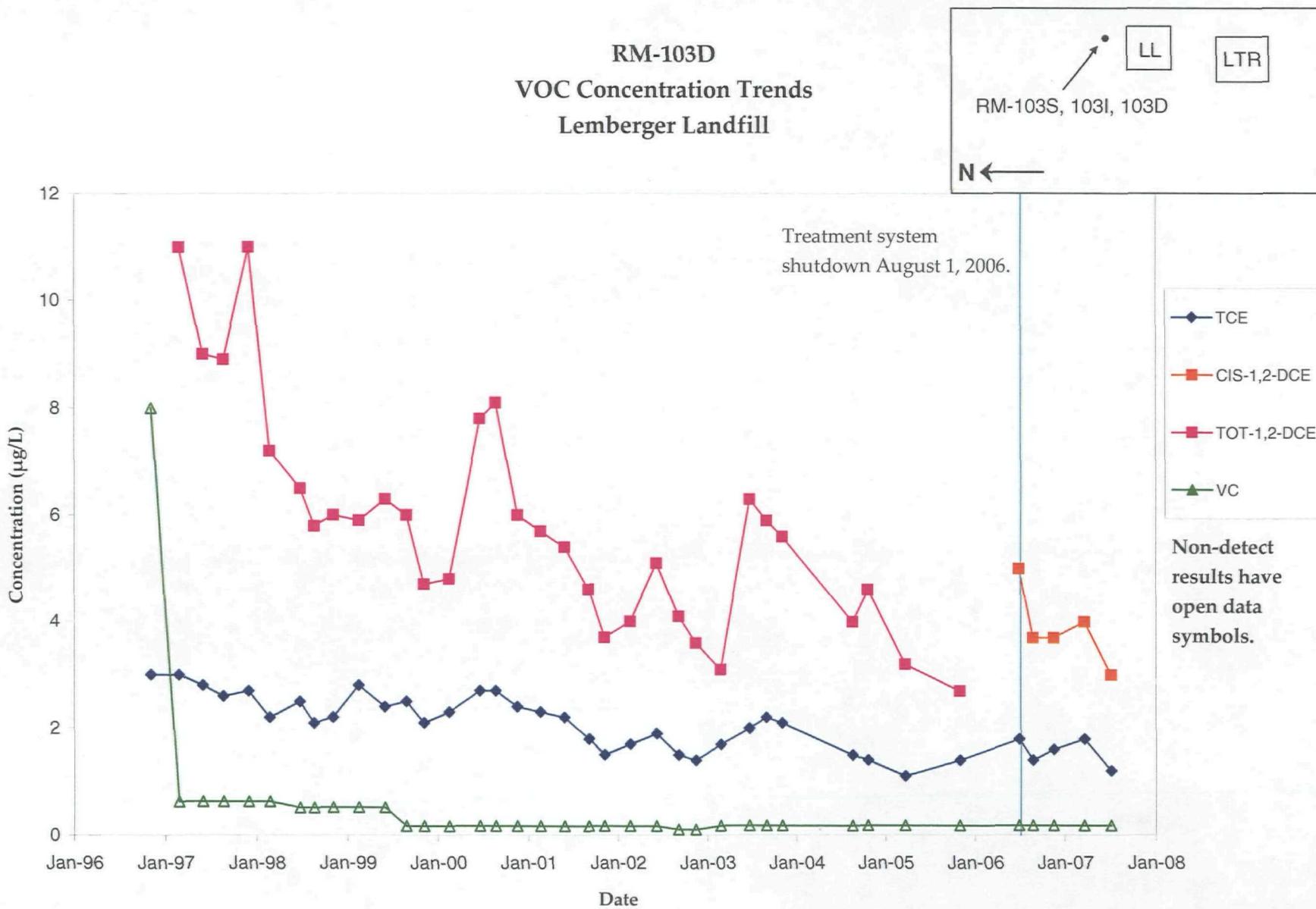


RM-102D
VOC Concentration Trends
Lemberger Landfill

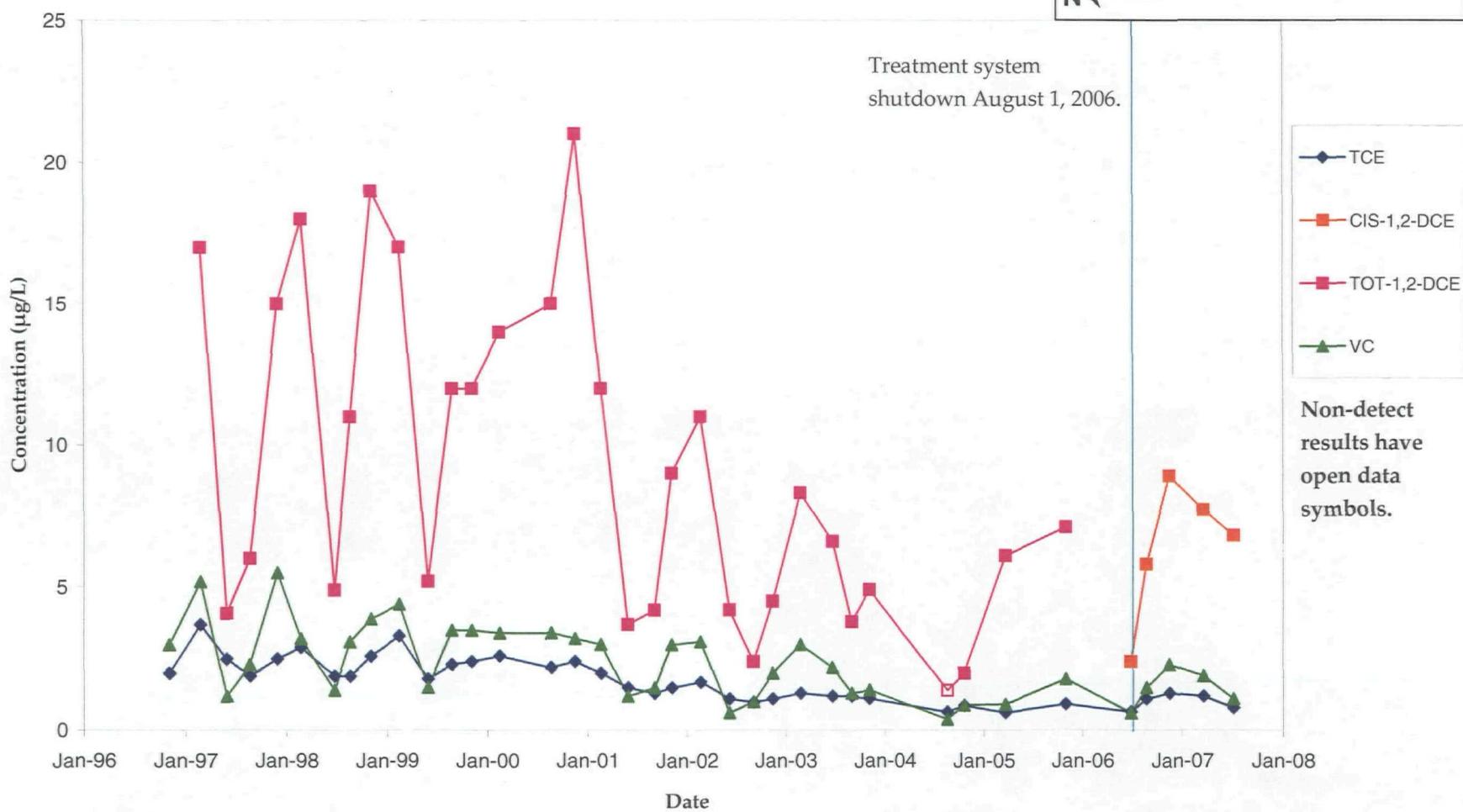


08

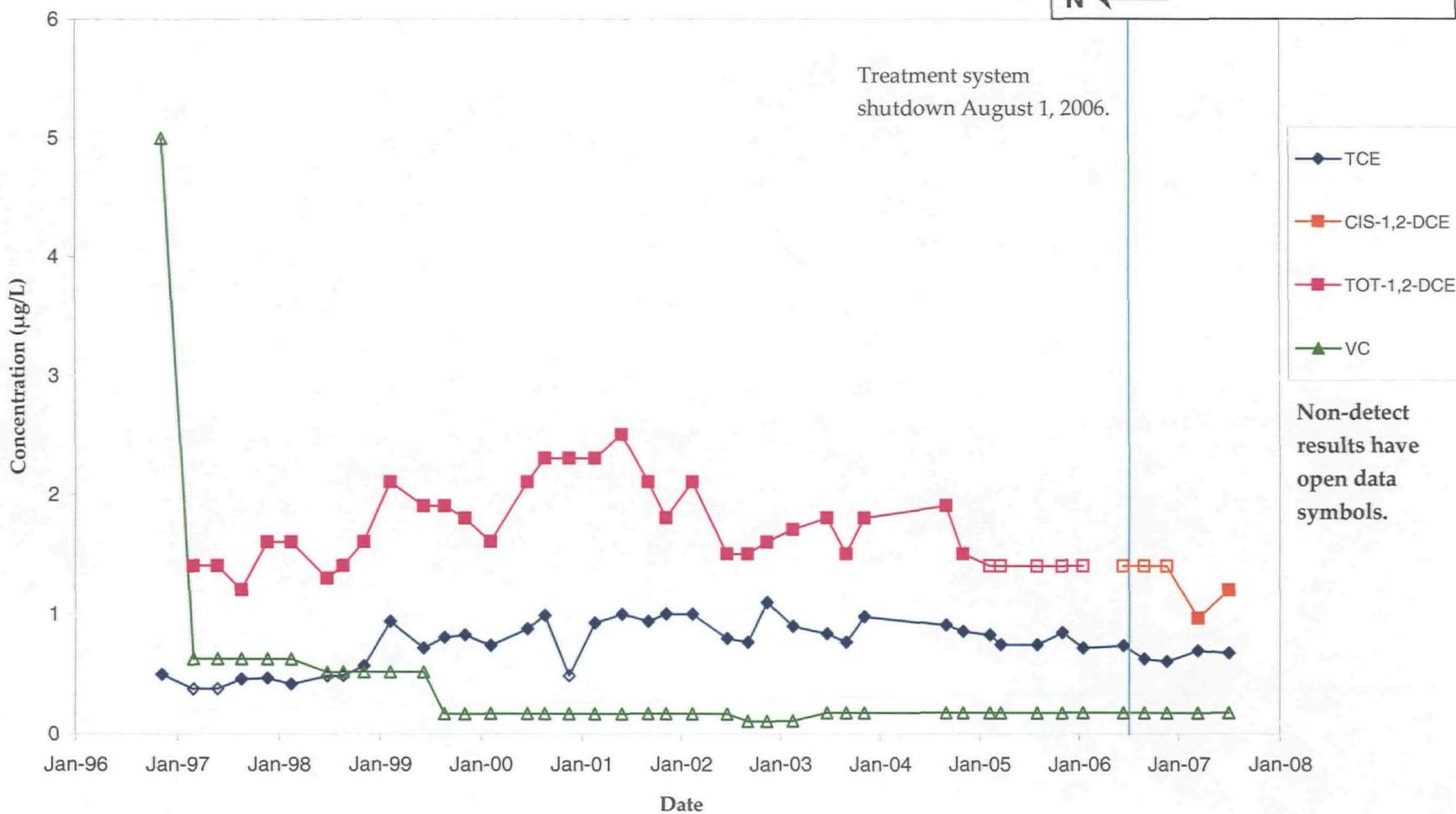
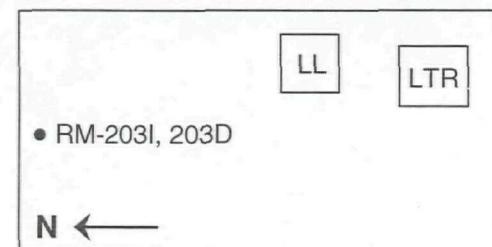
RM-103D
VOC Concentration Trends
Lemberger Landfill



RM-103S
VOC Concentration Trends
Lemberger Landfill

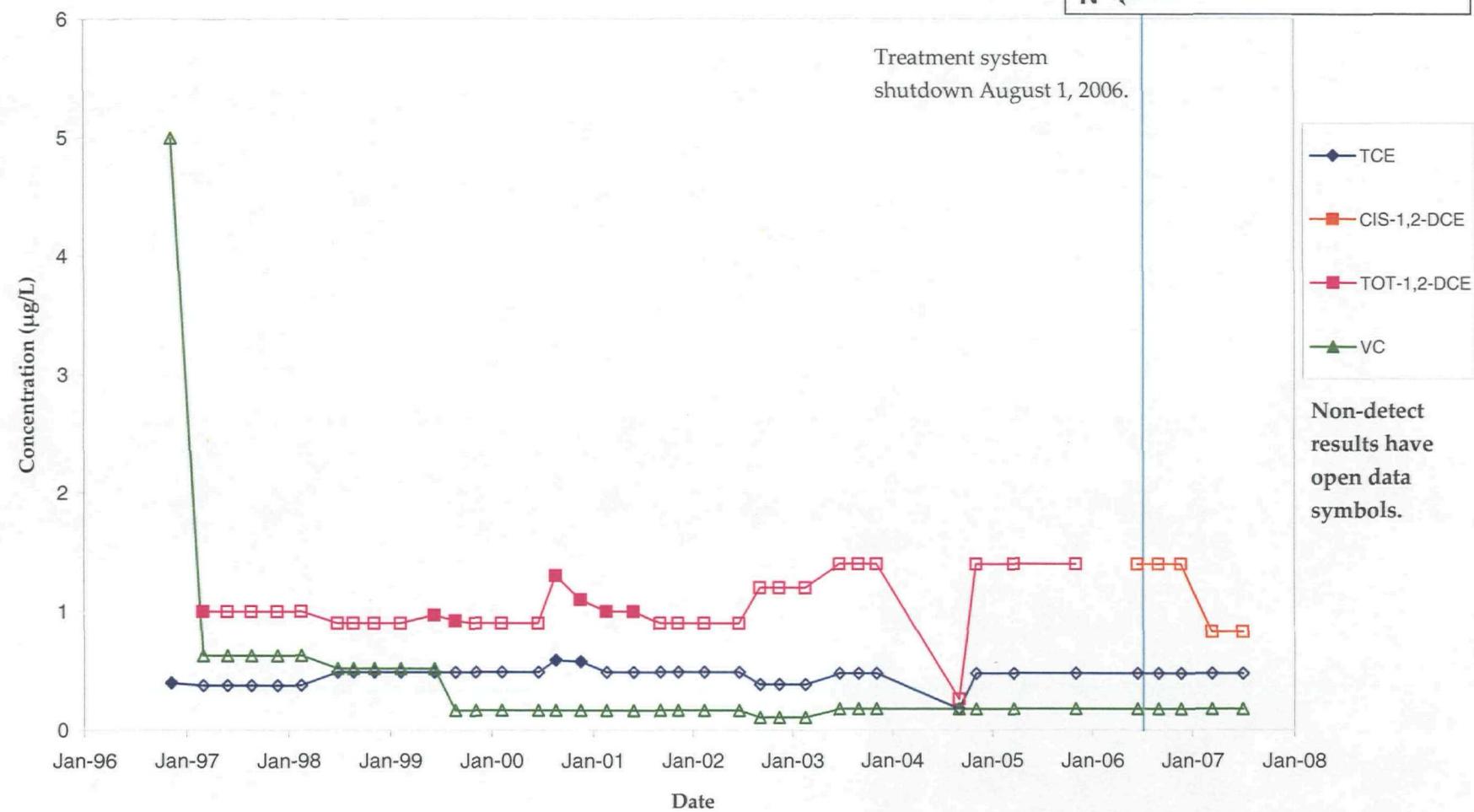


RM-203D
VOC Concentration Trends
Lemberger Landfill

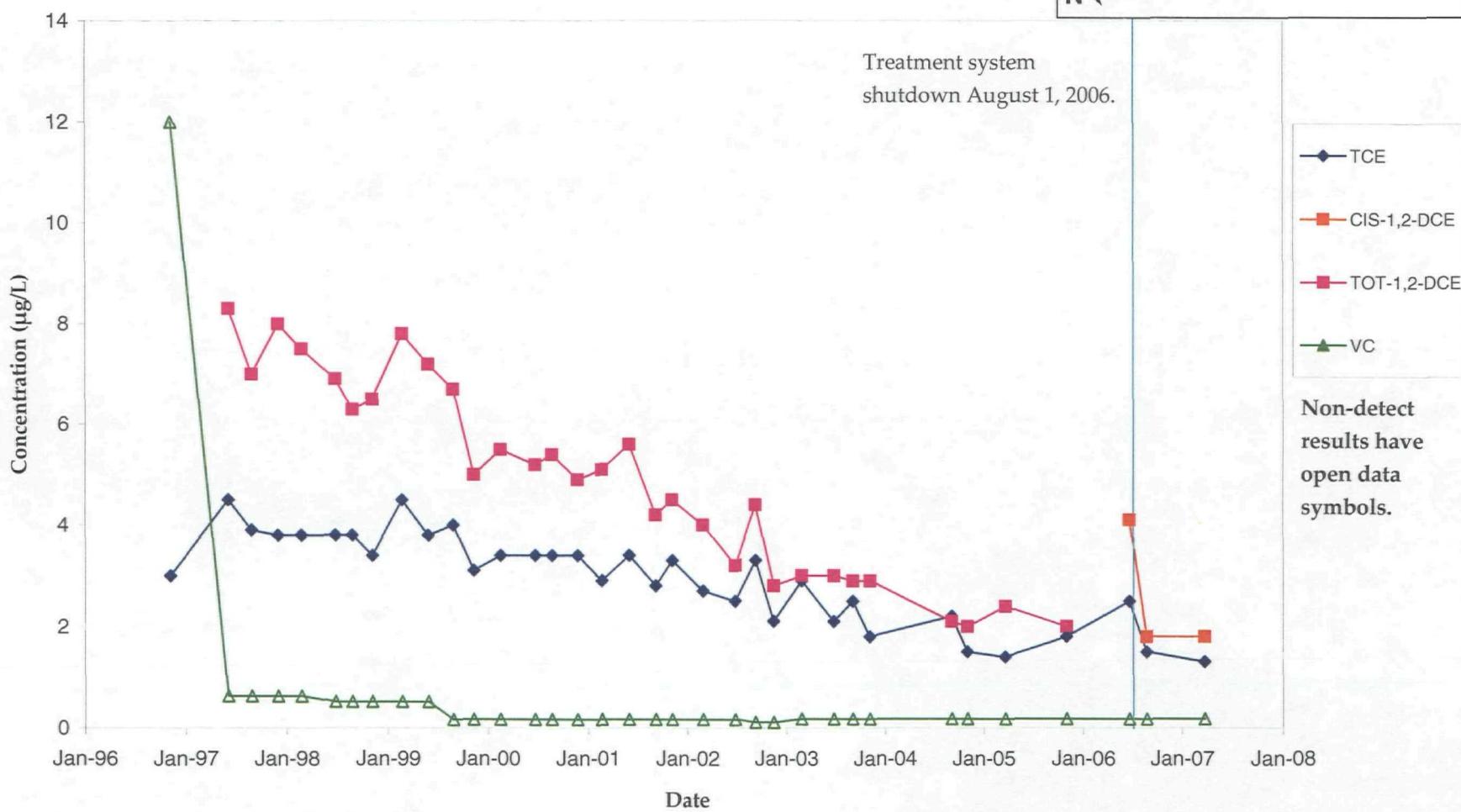


EE

RM-203I
VOC Concentration Trends
Lemberger Landfill

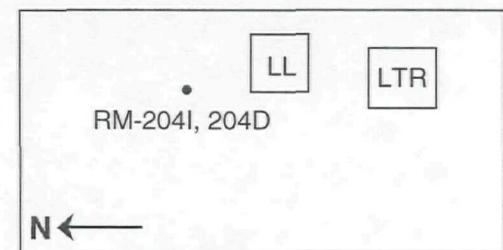
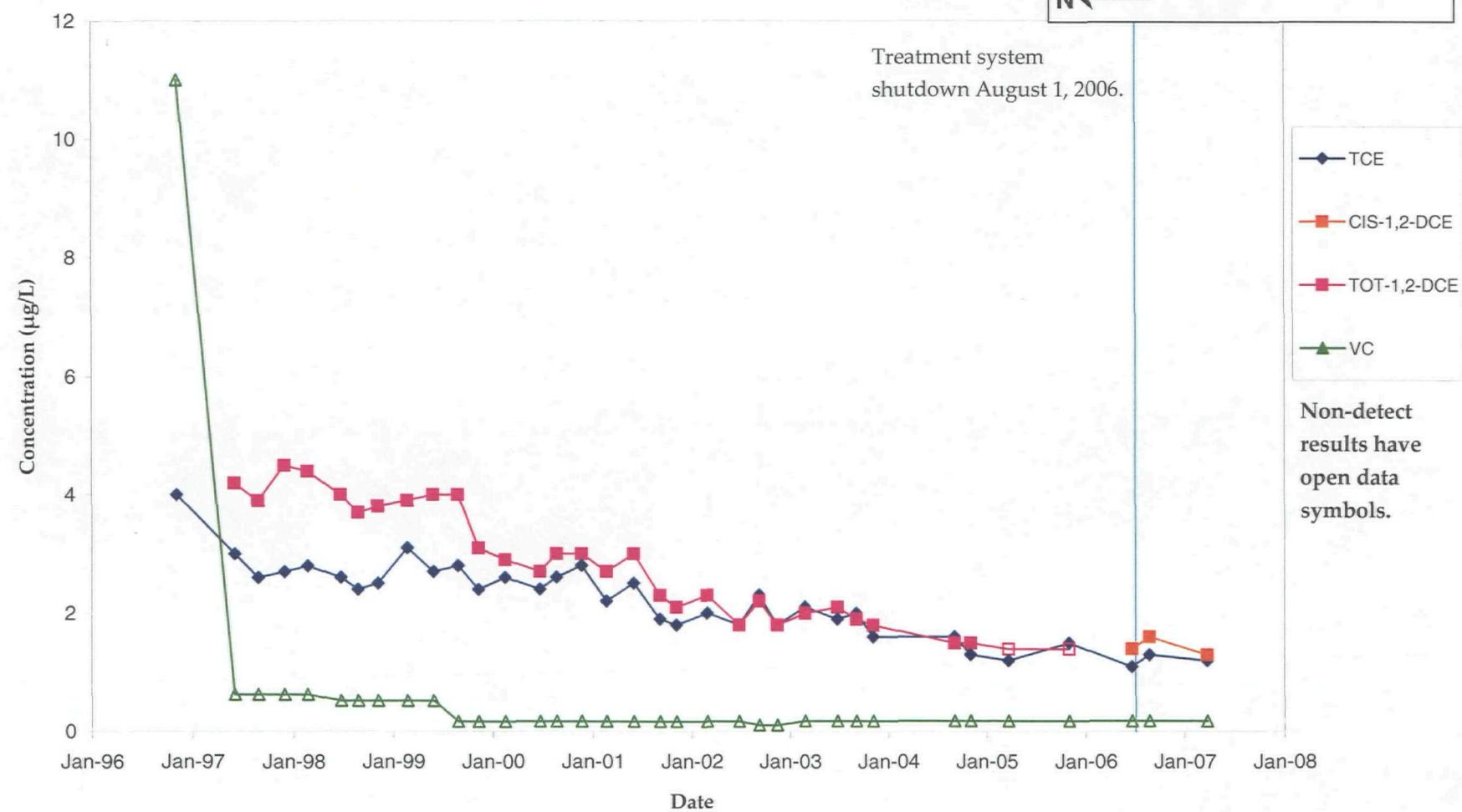


RM-204D
VOC Concentration Trends
Lemberger Landfill



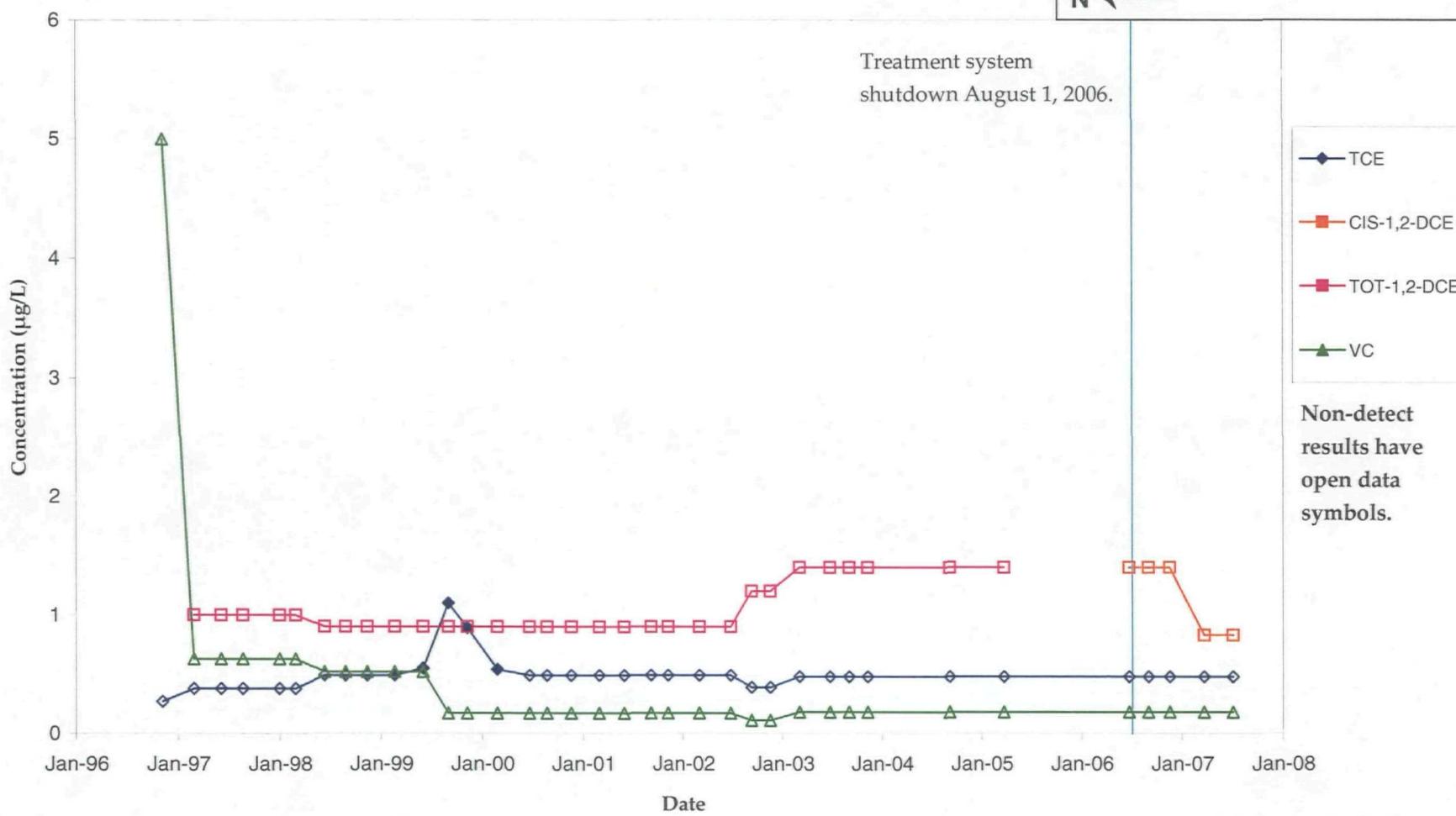
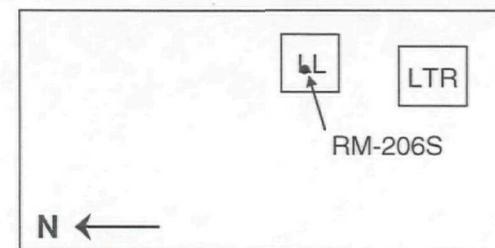
88

RM-204I
VOC Concentration Trends
Lemberger Landfill



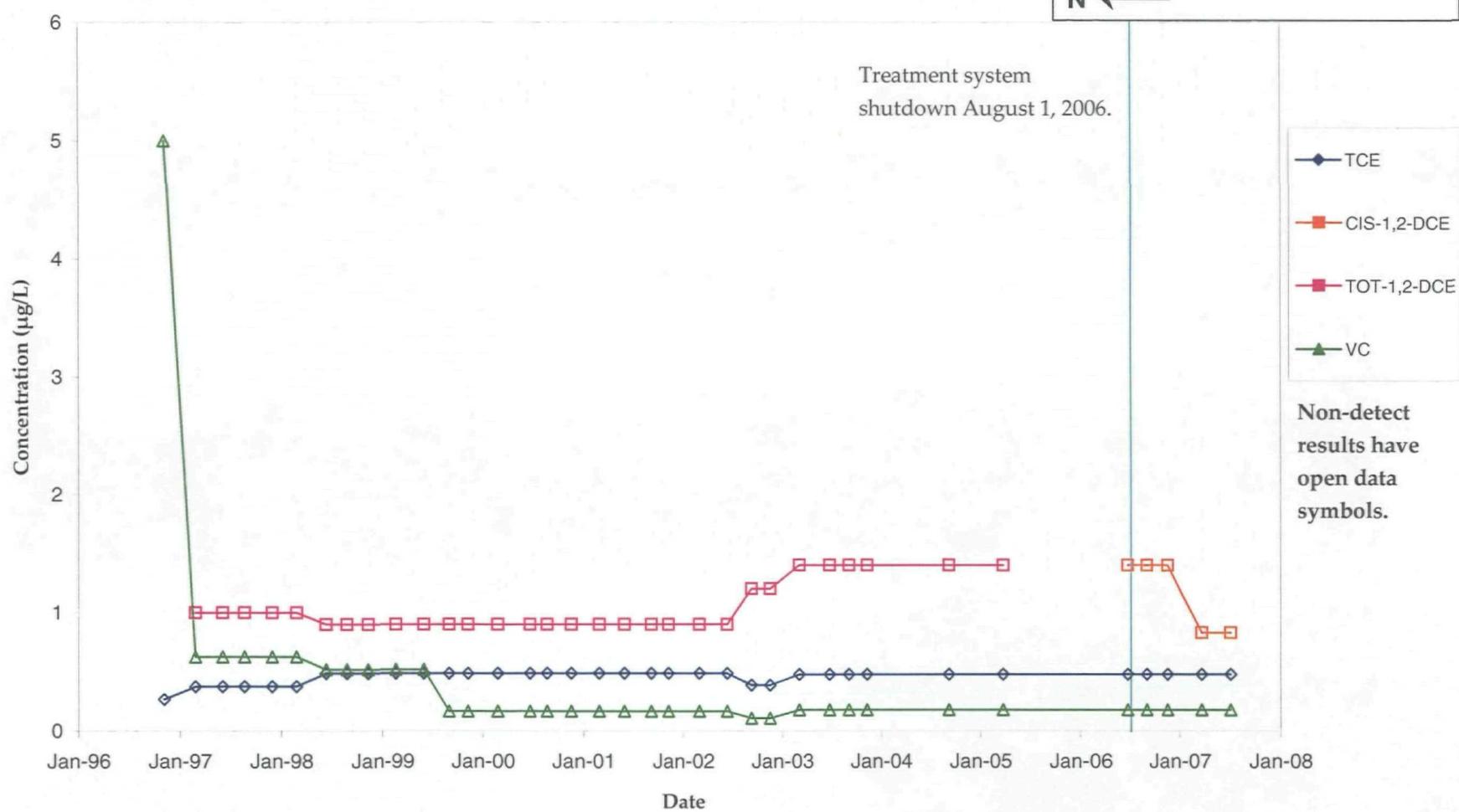
98

RM-206S
VOC Concentration Trends
Lemberger Landfill



L&
Non-detect
results have
open data
symbols.

RM-207S
VOC Concentration Trends
Lemberger Landfill

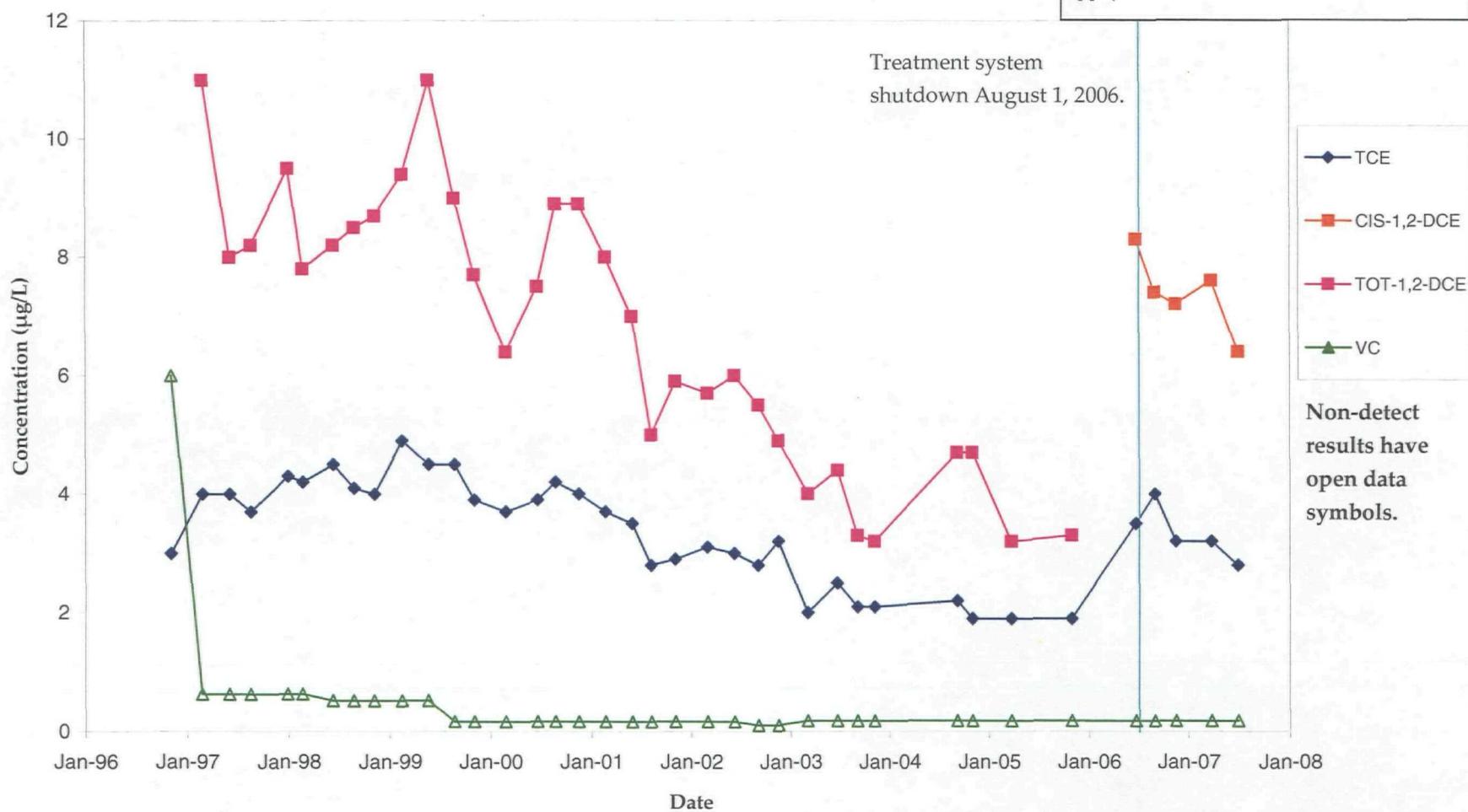
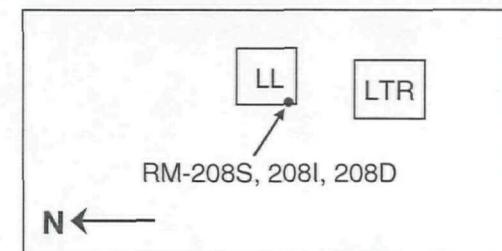


Lb LTR

RM-207S

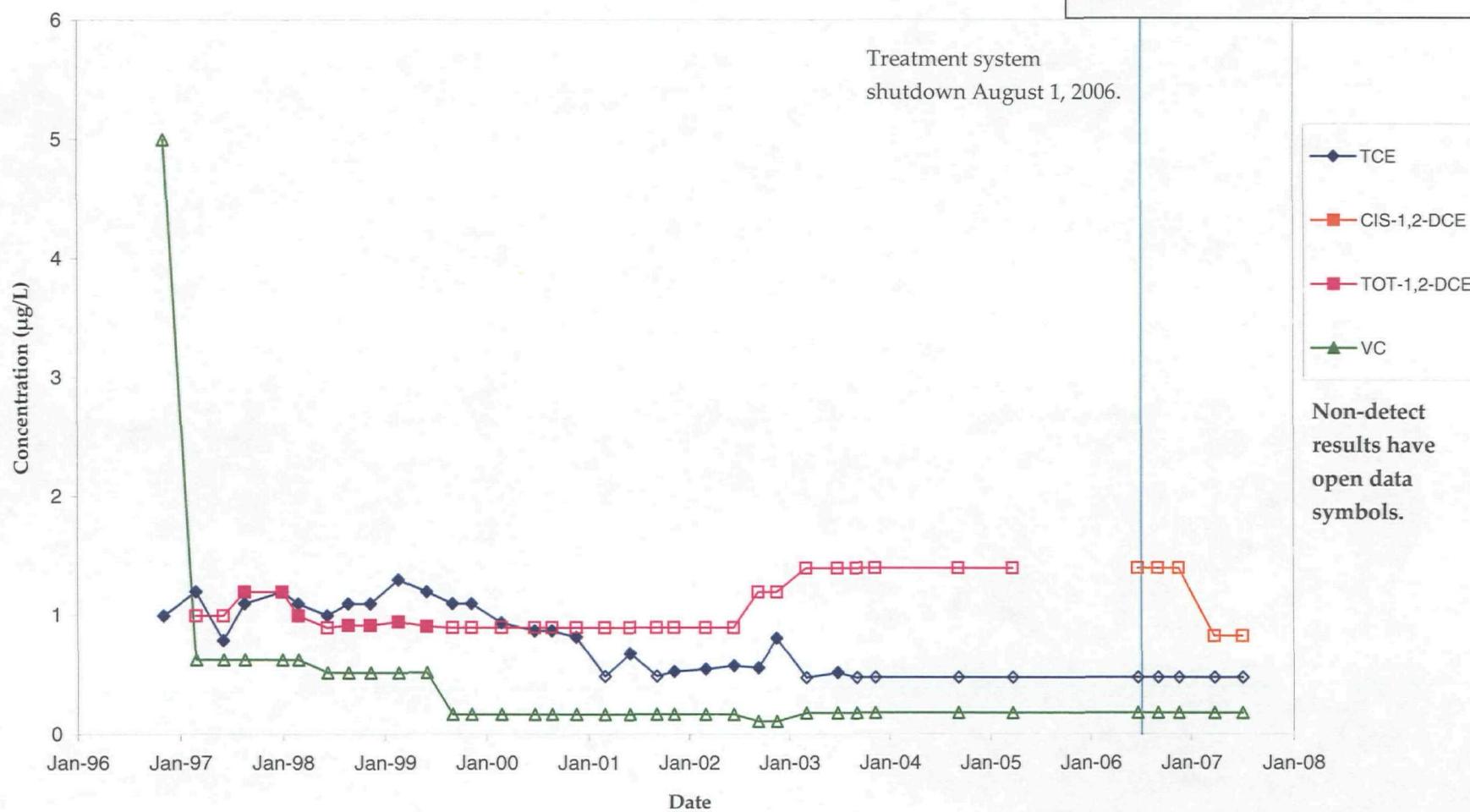
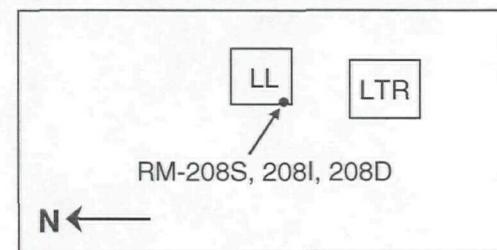
N ←

RM-208D
VOC Concentration Trends
Lemberger Landfill



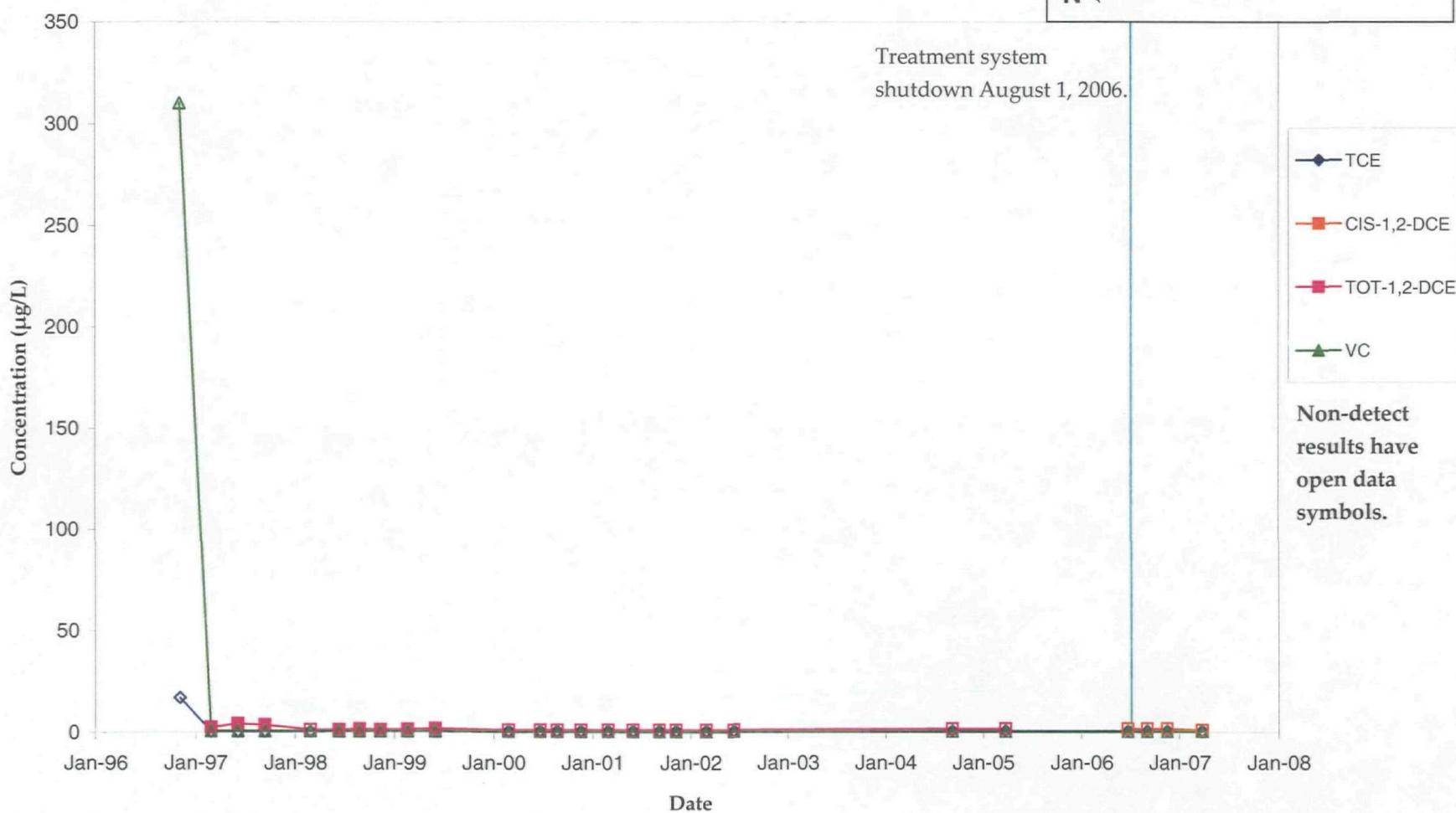
b8

RM-208I
VOC Concentration Trends
Lemberger Landfill



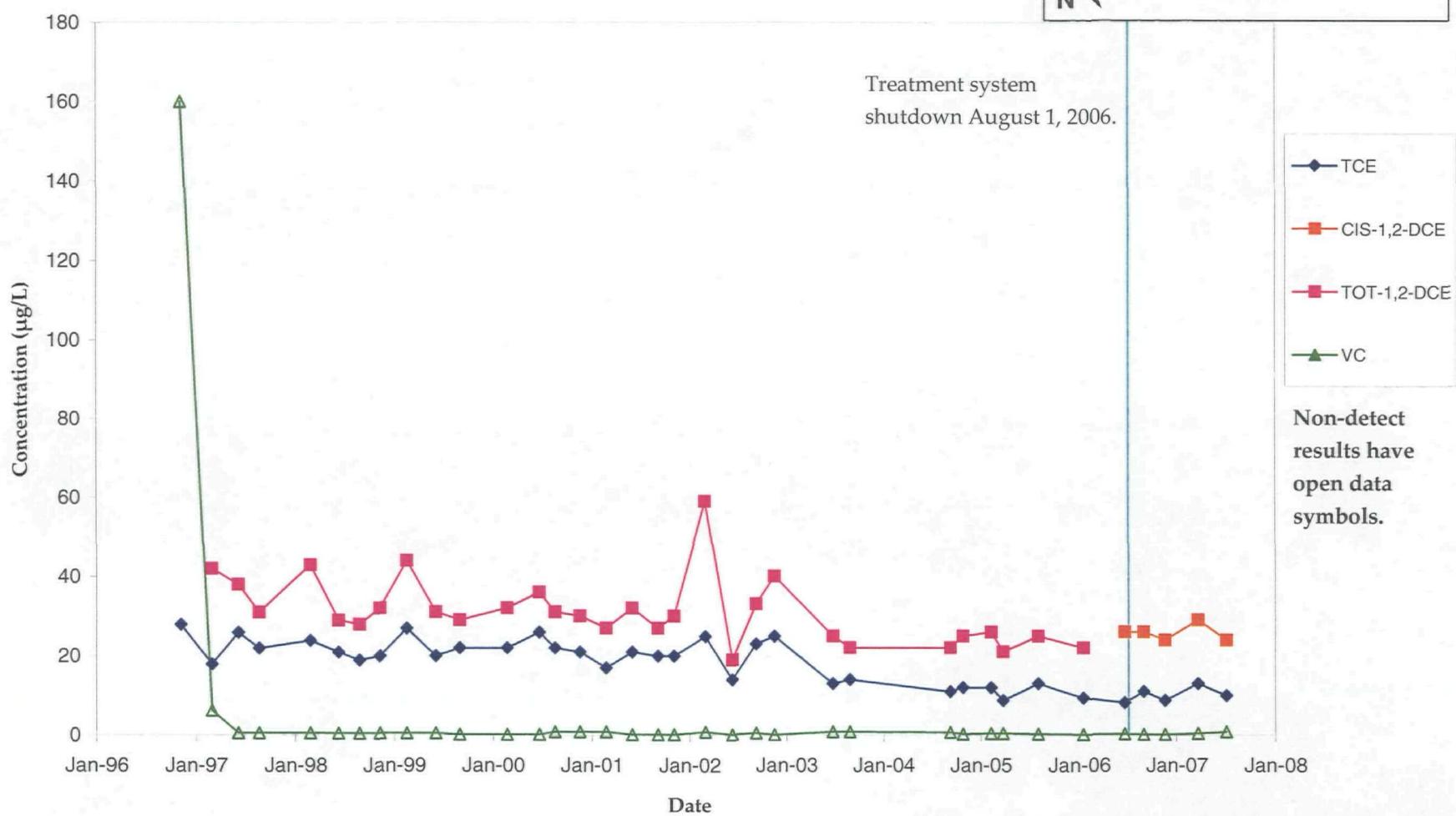
Qb

RM-208S
VOC Concentration Trends
Lemberger Landfill



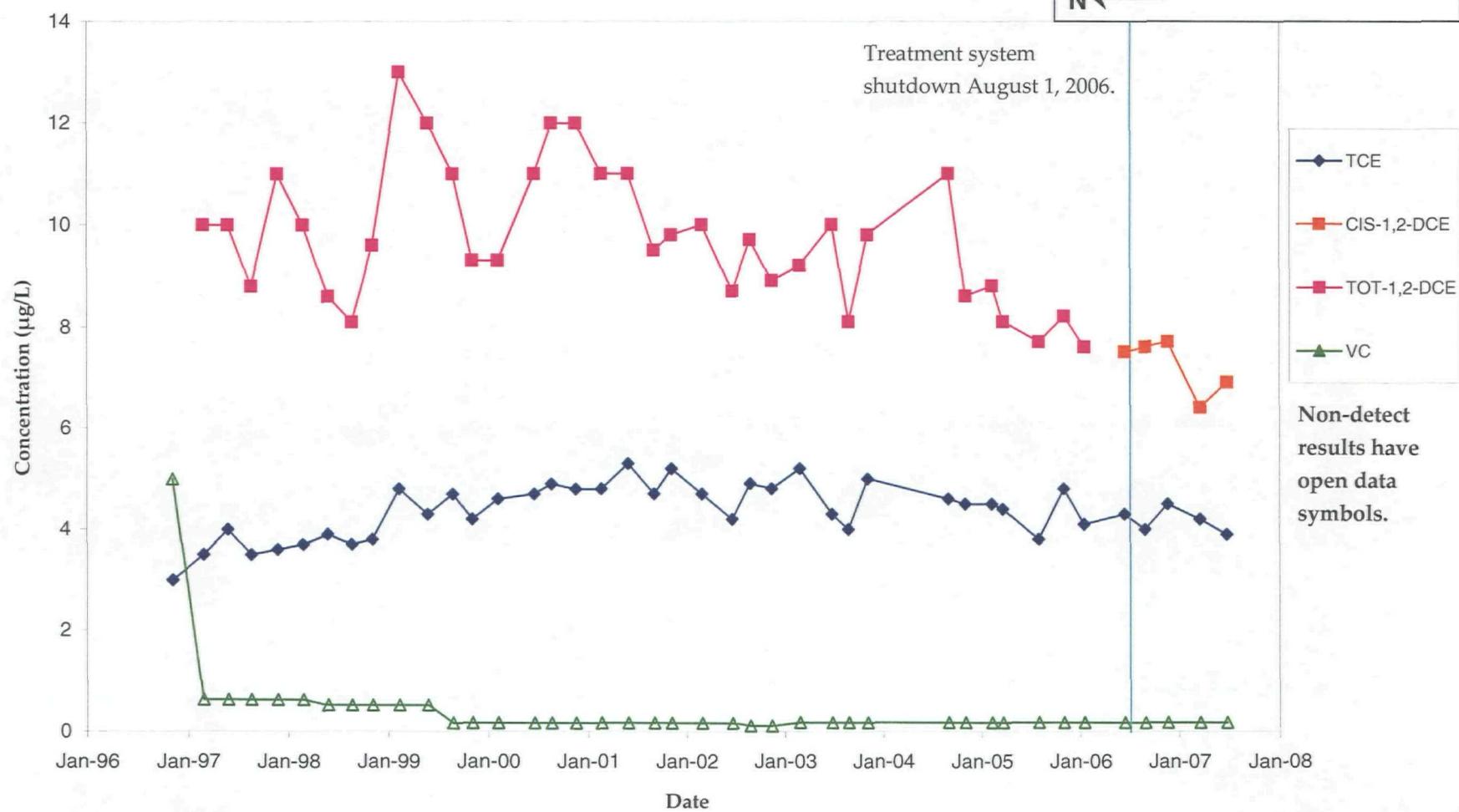
16

RM-209D
VOC Concentration Trends
Lemberger Landfill



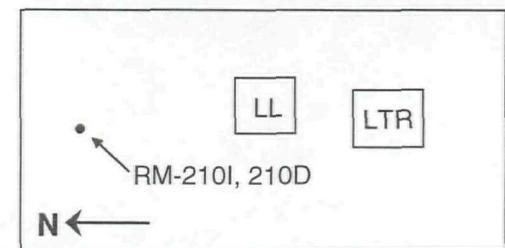
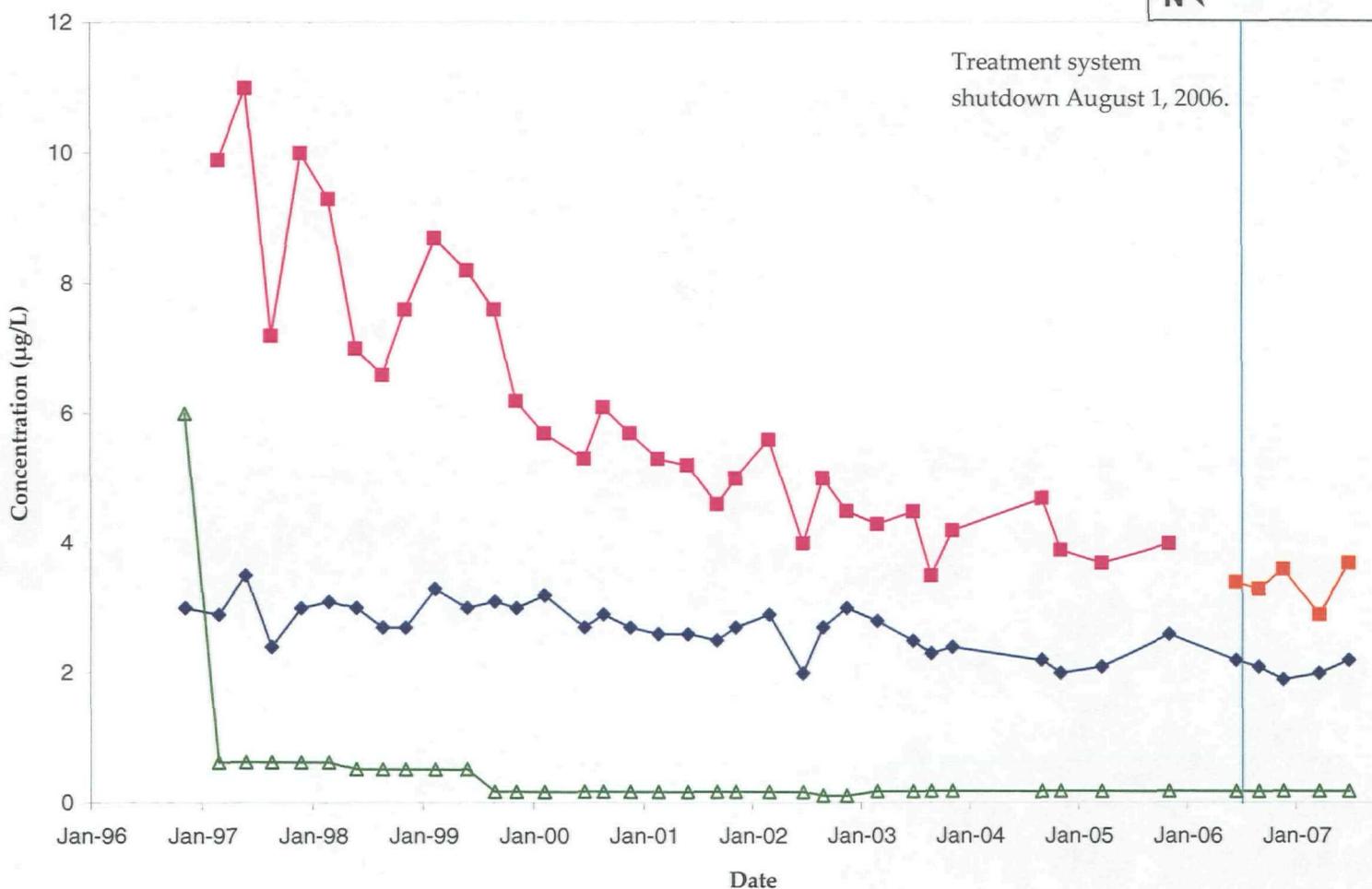
eb

RM-210D
VOC Concentration Trends
Lemberger Landfill



Eb

RM-210I
VOC Concentration Trends
Lemberger Landfill

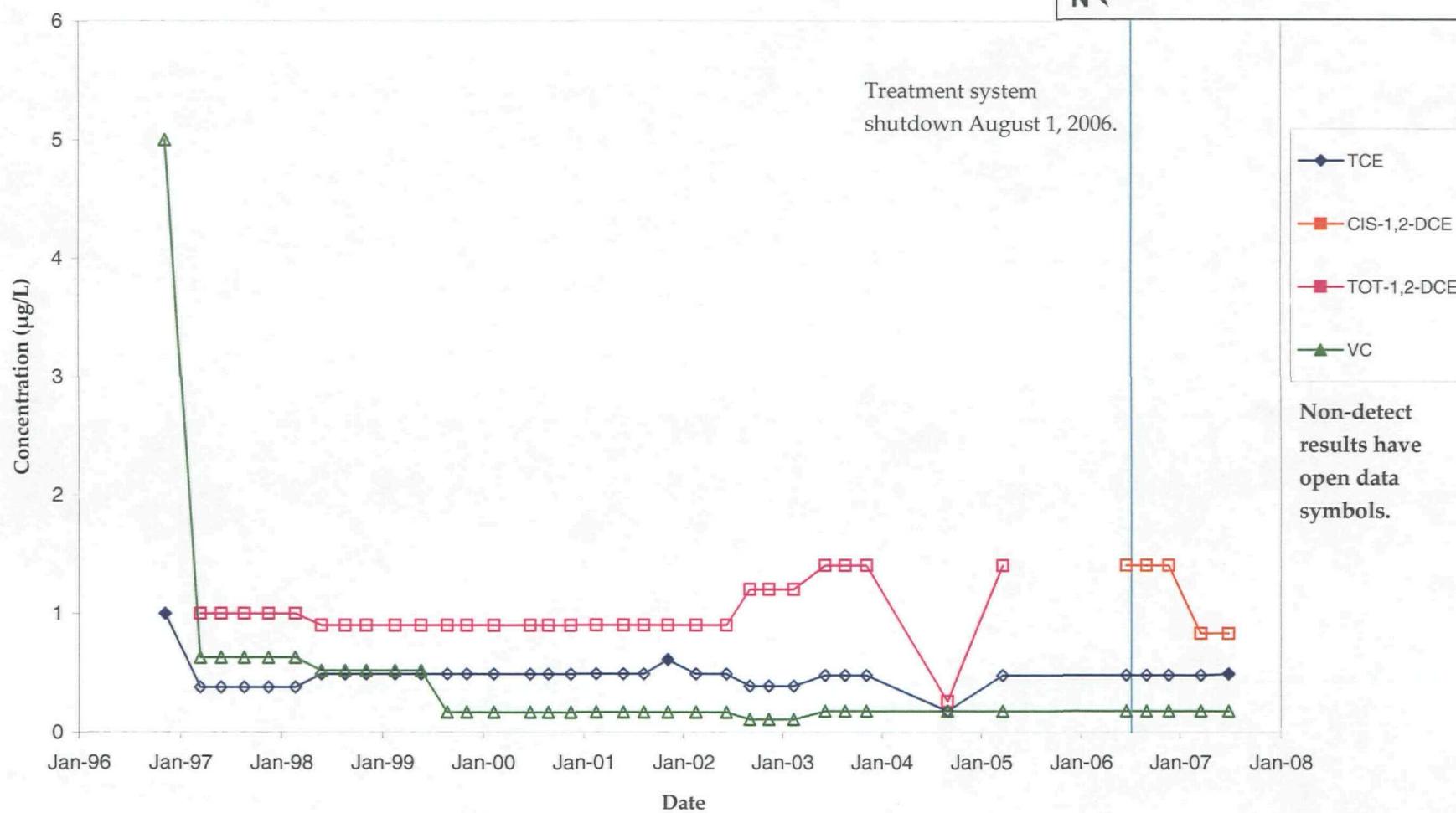
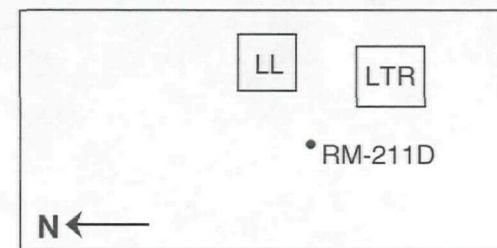


Treatment system
shutdown August 1, 2006.

- TCE
- CIS-1,2-DCE
- TOT-1,2-DCE
- ▲ VC

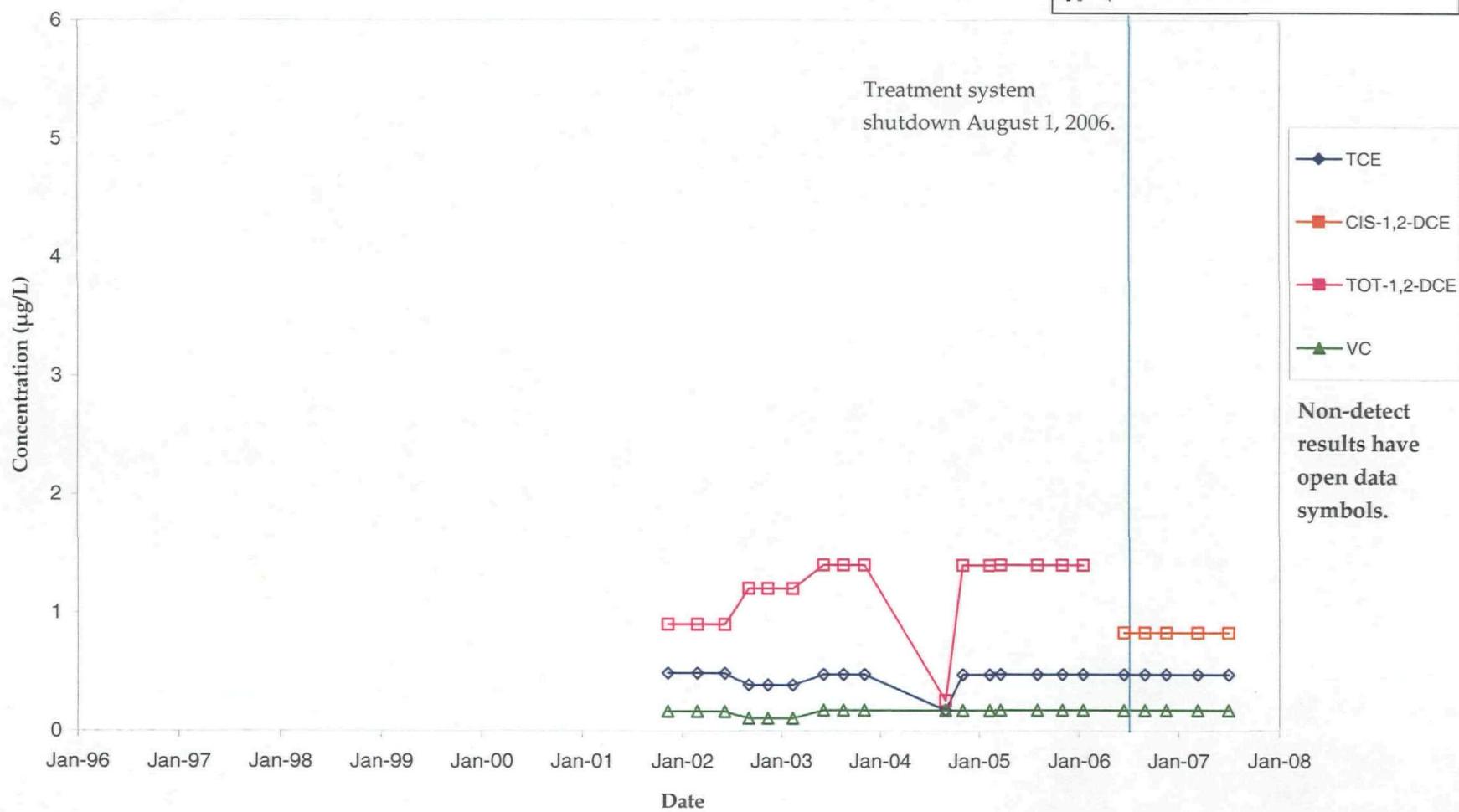
Non-detect
results have
open data
symbols.

RM-211D
VOC Concentration Trends
Lemberger Landfill



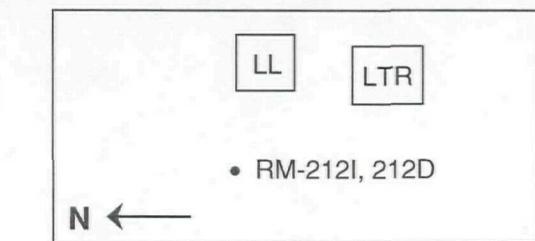
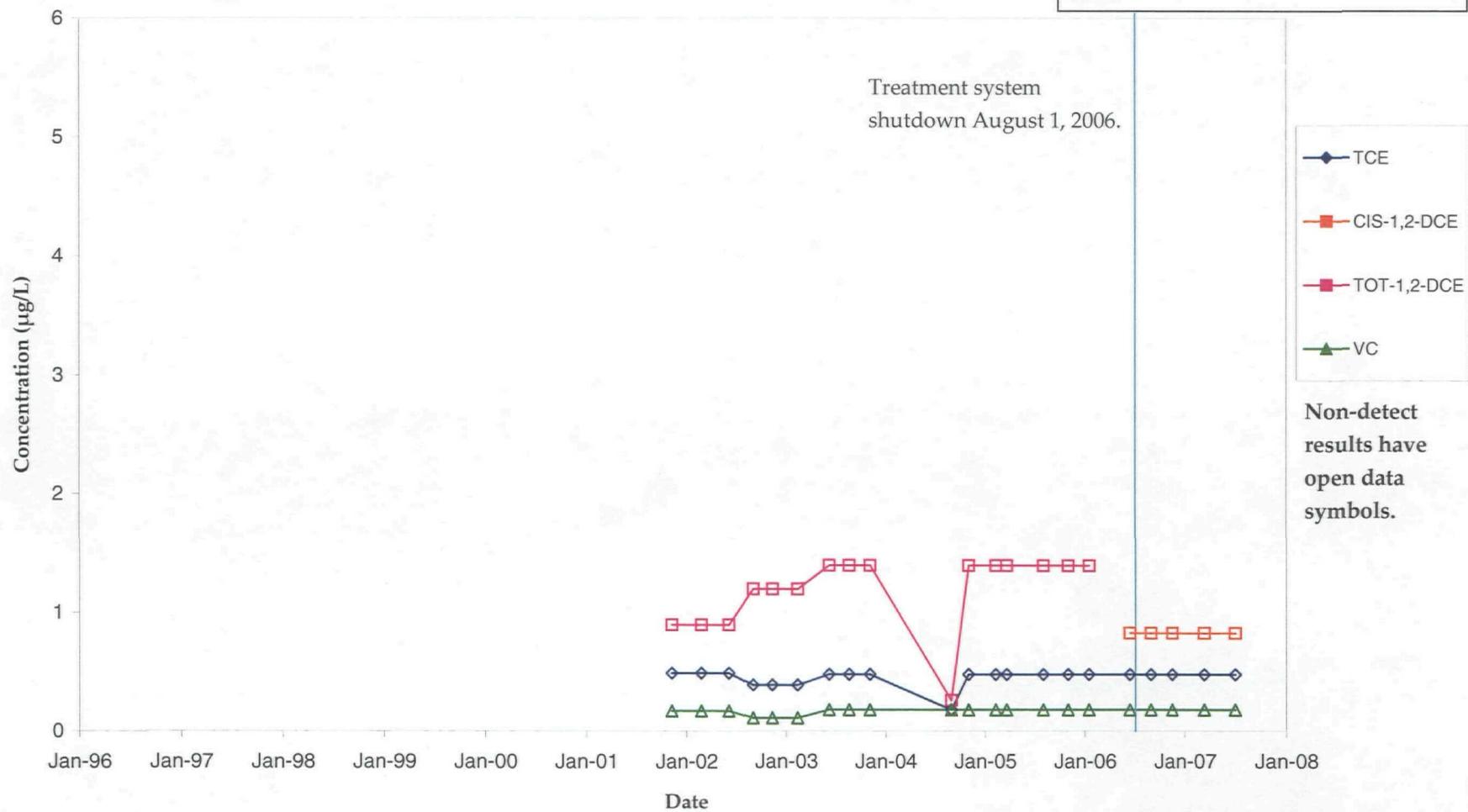
Sb

RM-212D
VOC Concentration Trends
Lemberger Landfill

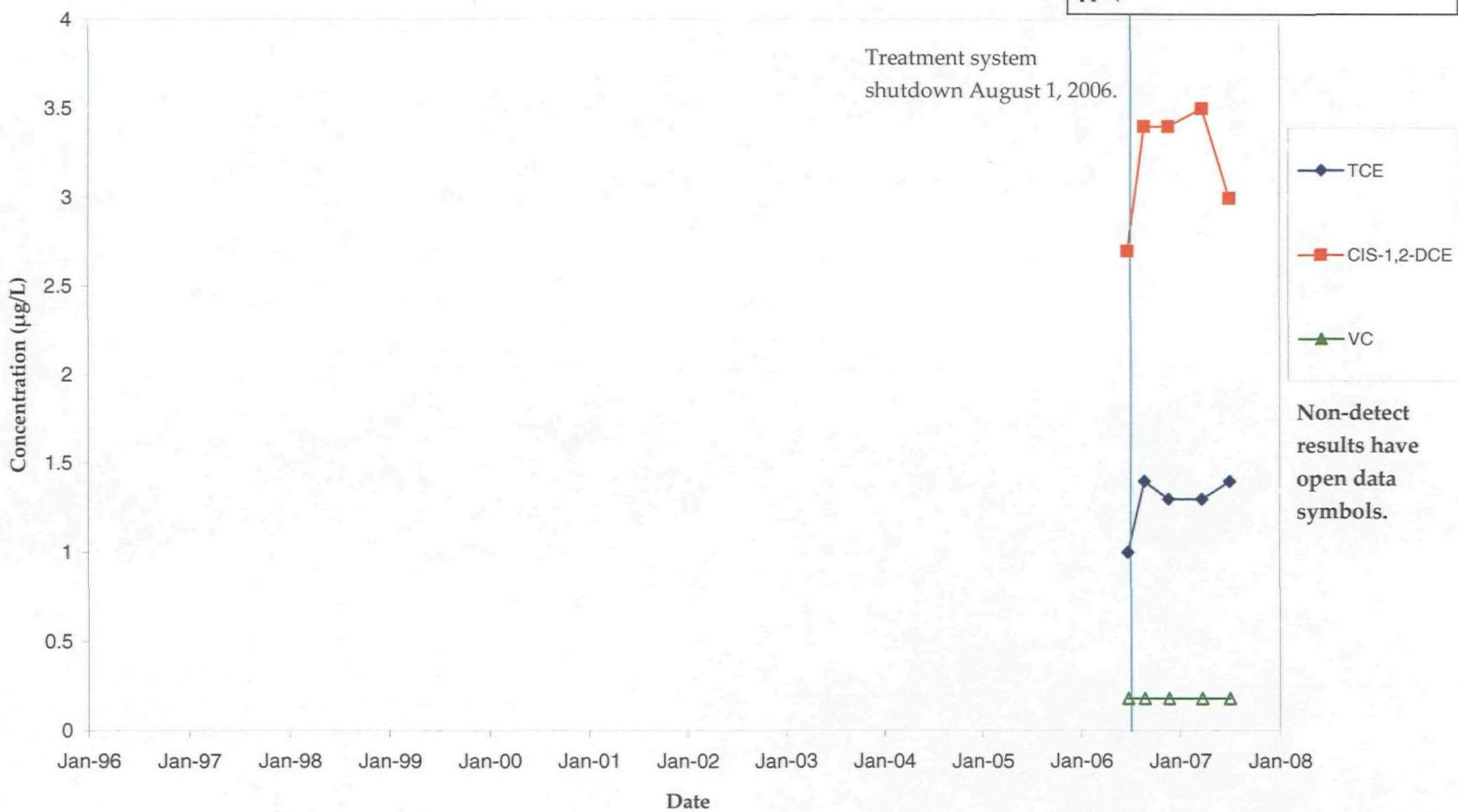


AB

RM-212I
VOC Concentration Trends
Lemberger Landfill

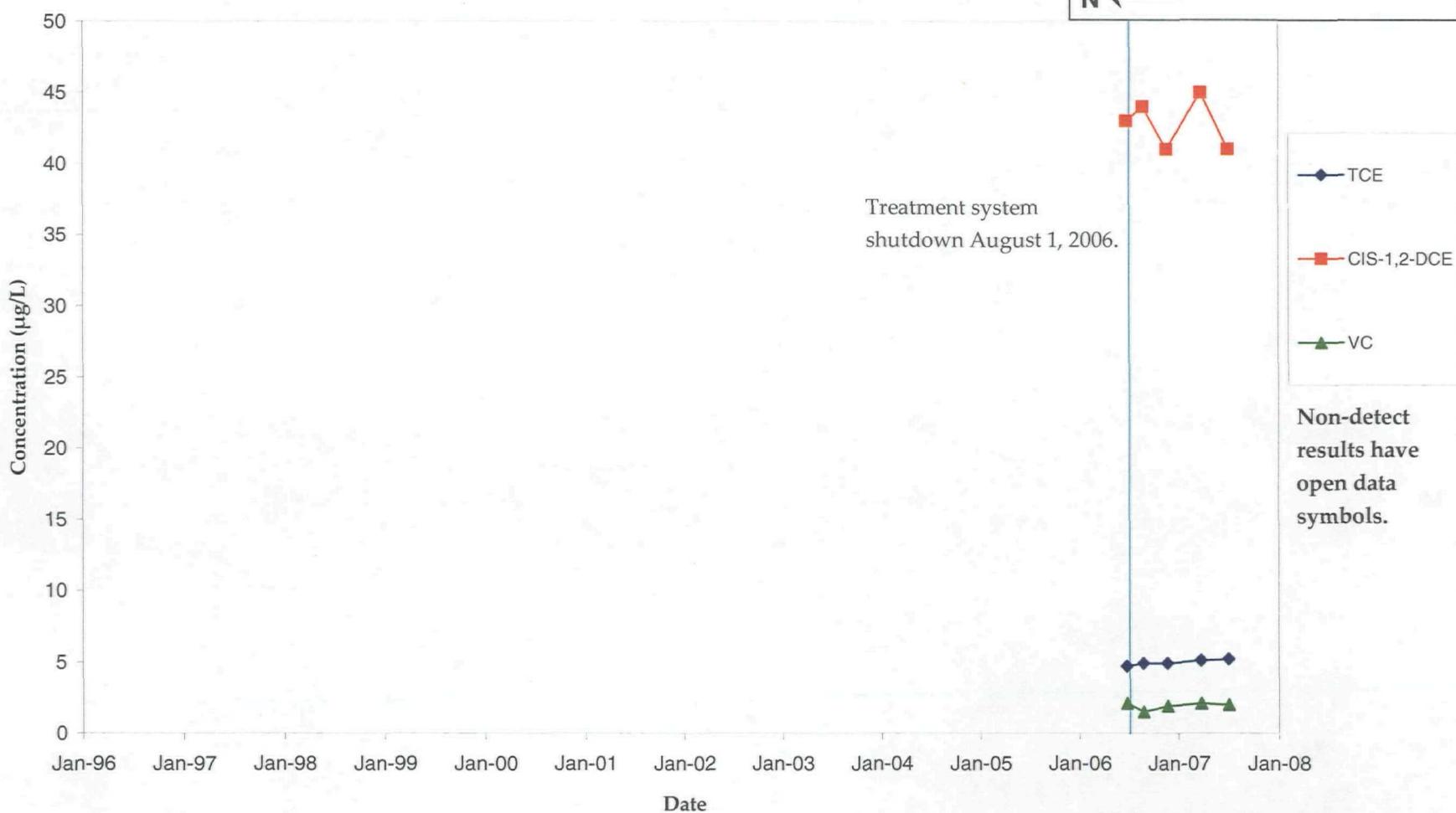


RM-213D
VOC Concentration Trends
Lemberger Landfill



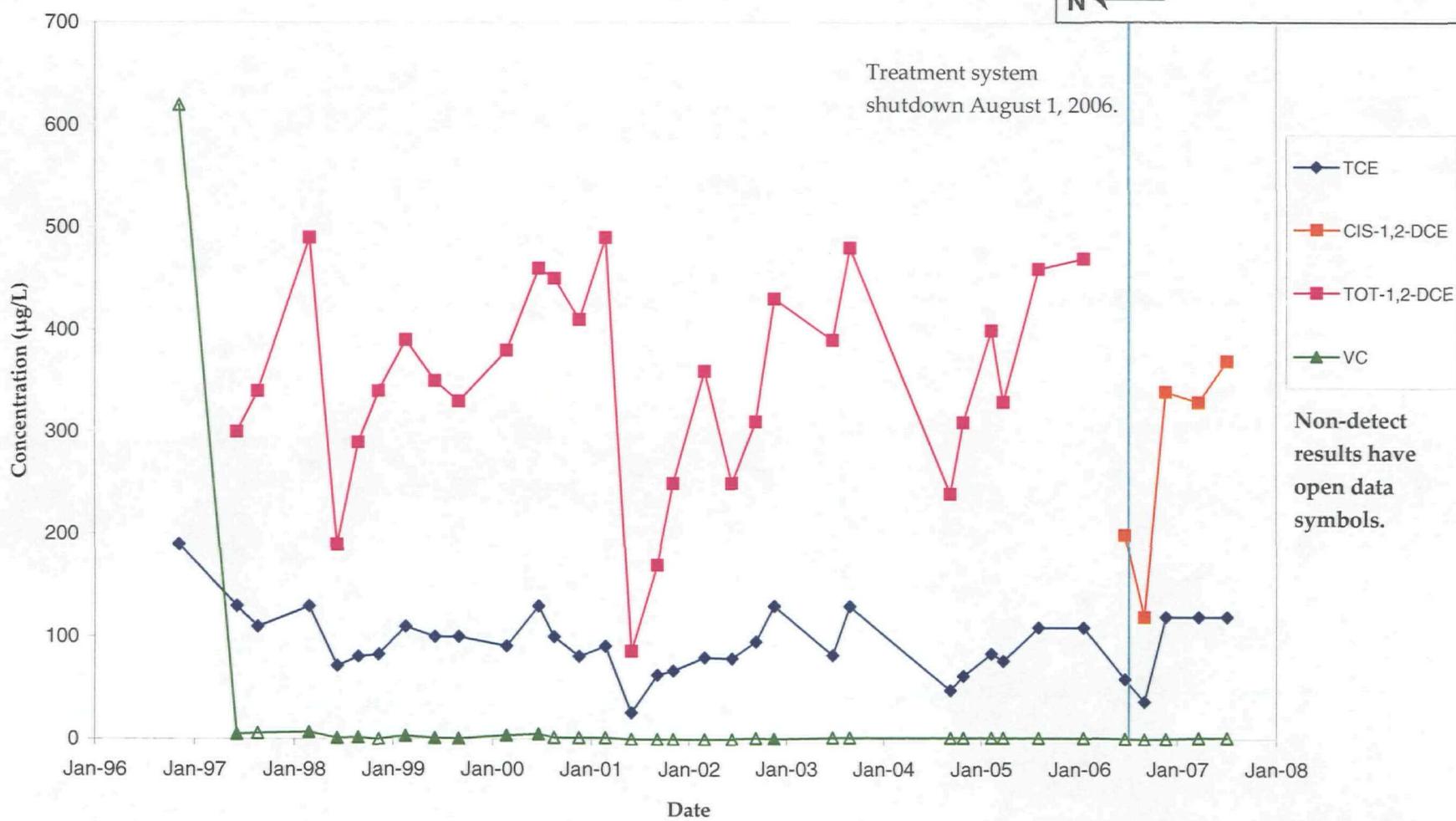
LB

RM-214D
VOC Concentration Trends
Lemberger Landfill



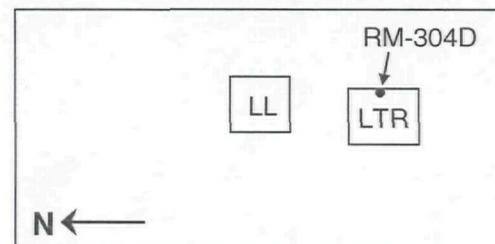
bb

RM-303D
VOC Concentration Trends
Lemberger Landfill

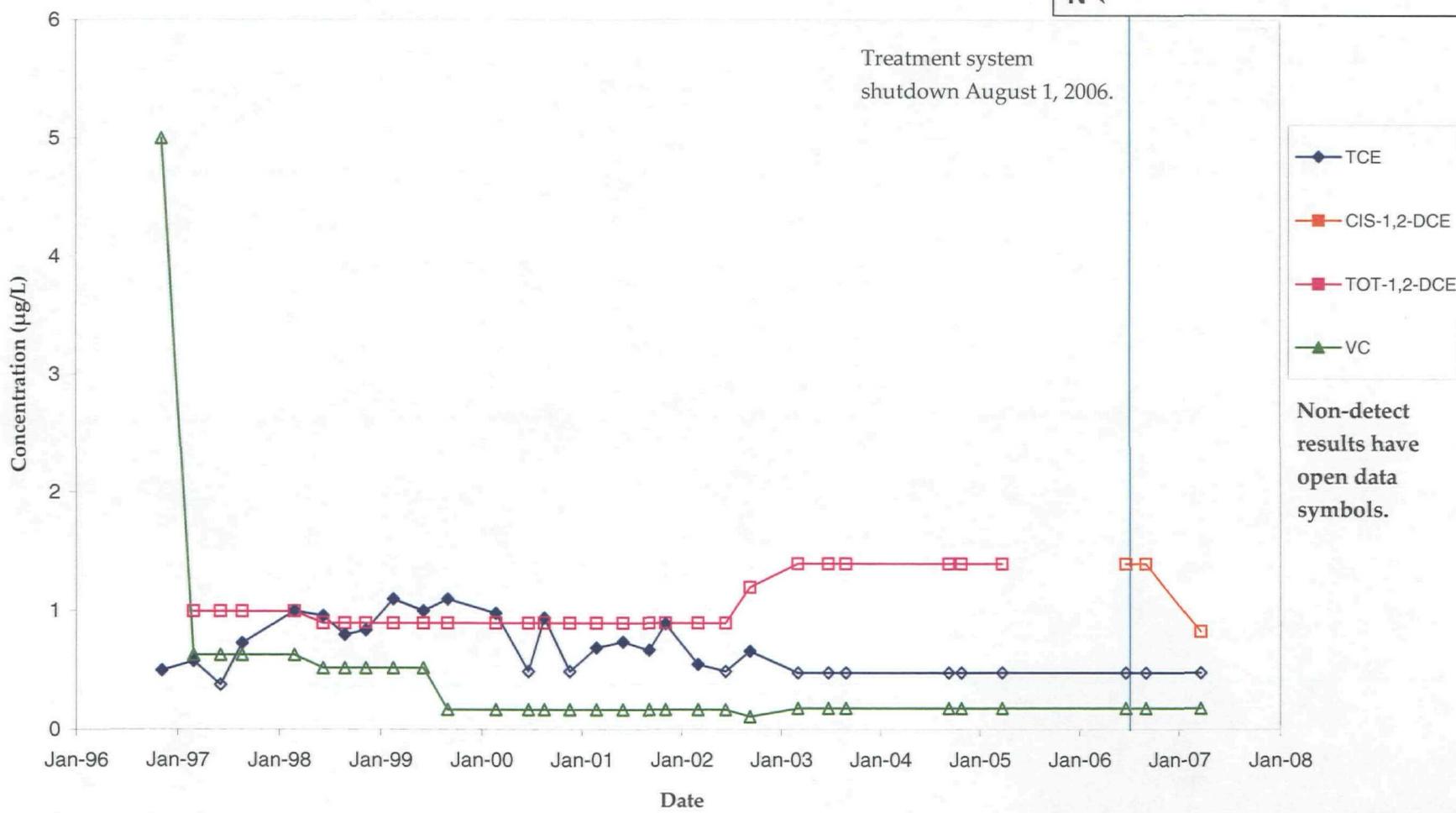


001

RM-304D VOC Concentration Trends Lemberger Landfill

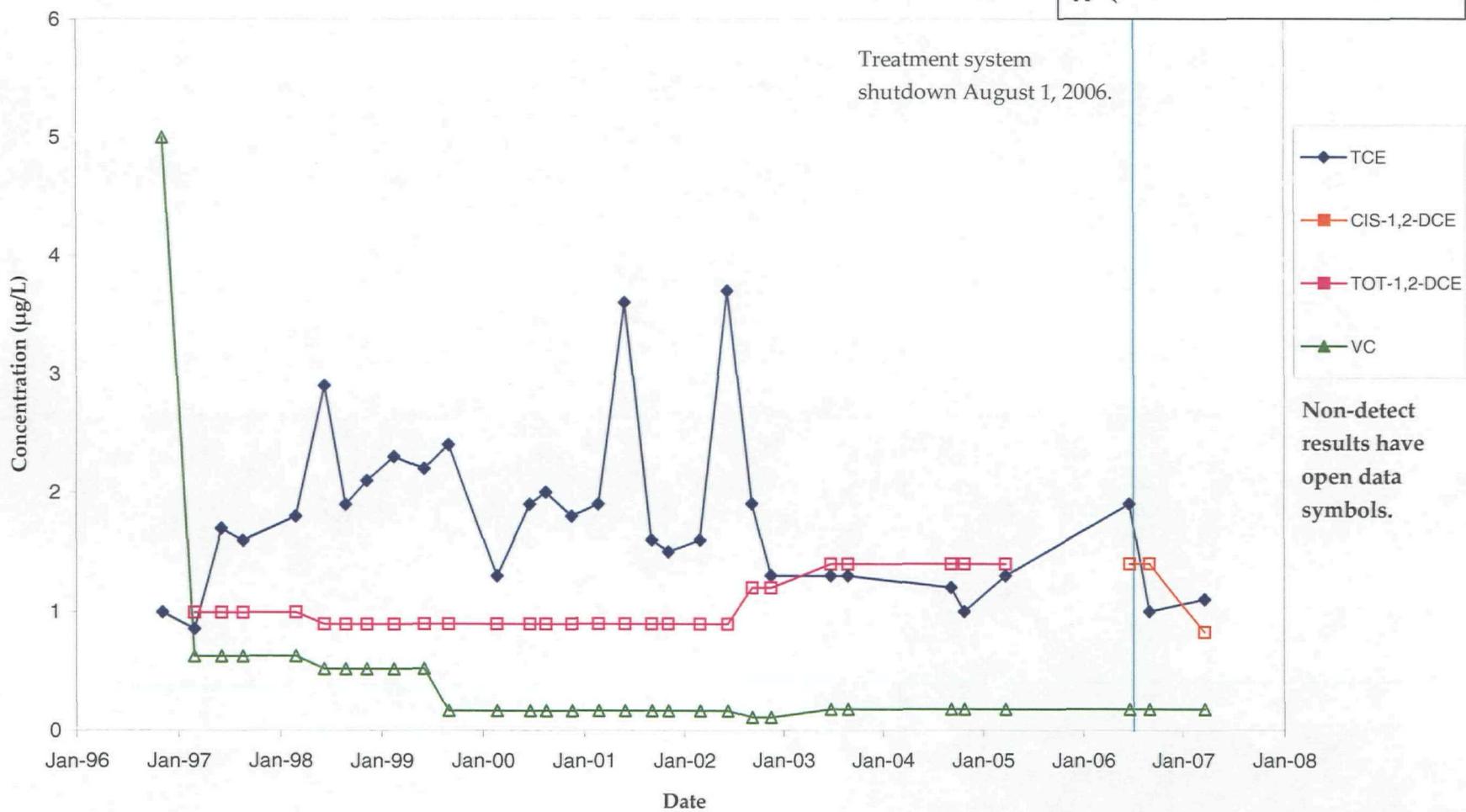
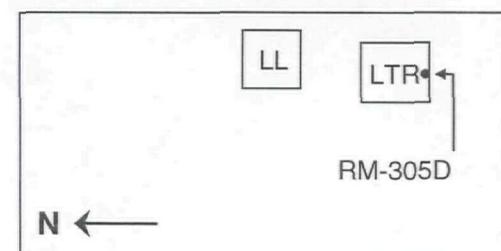


Treatment system
shutdown August 1, 2006.



Non-detect results have open data symbols.

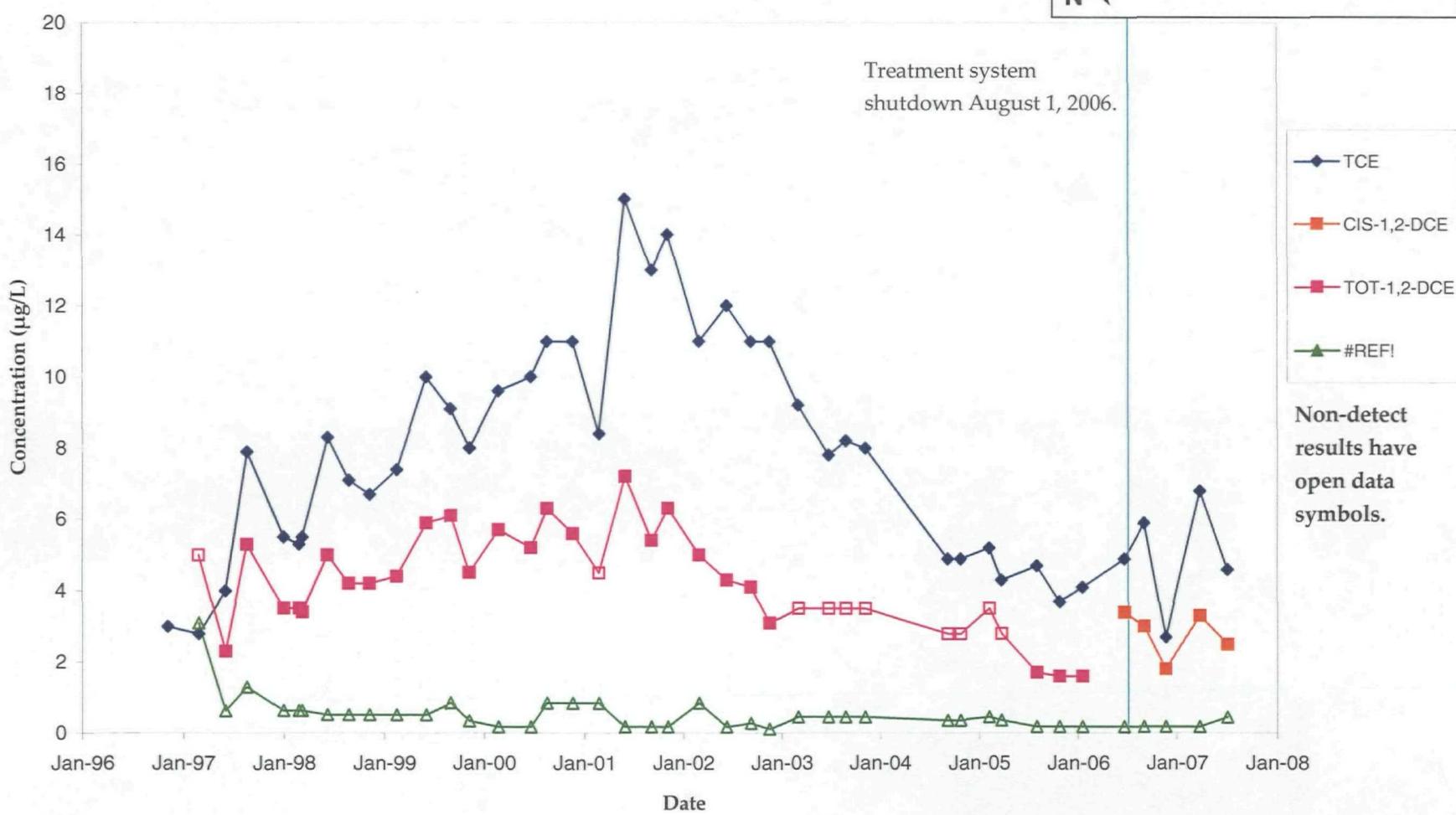
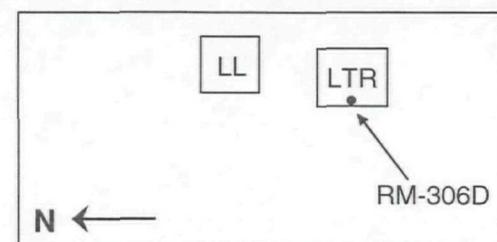
RM-305D
VOC Concentration Trends
Lemberger Landfill



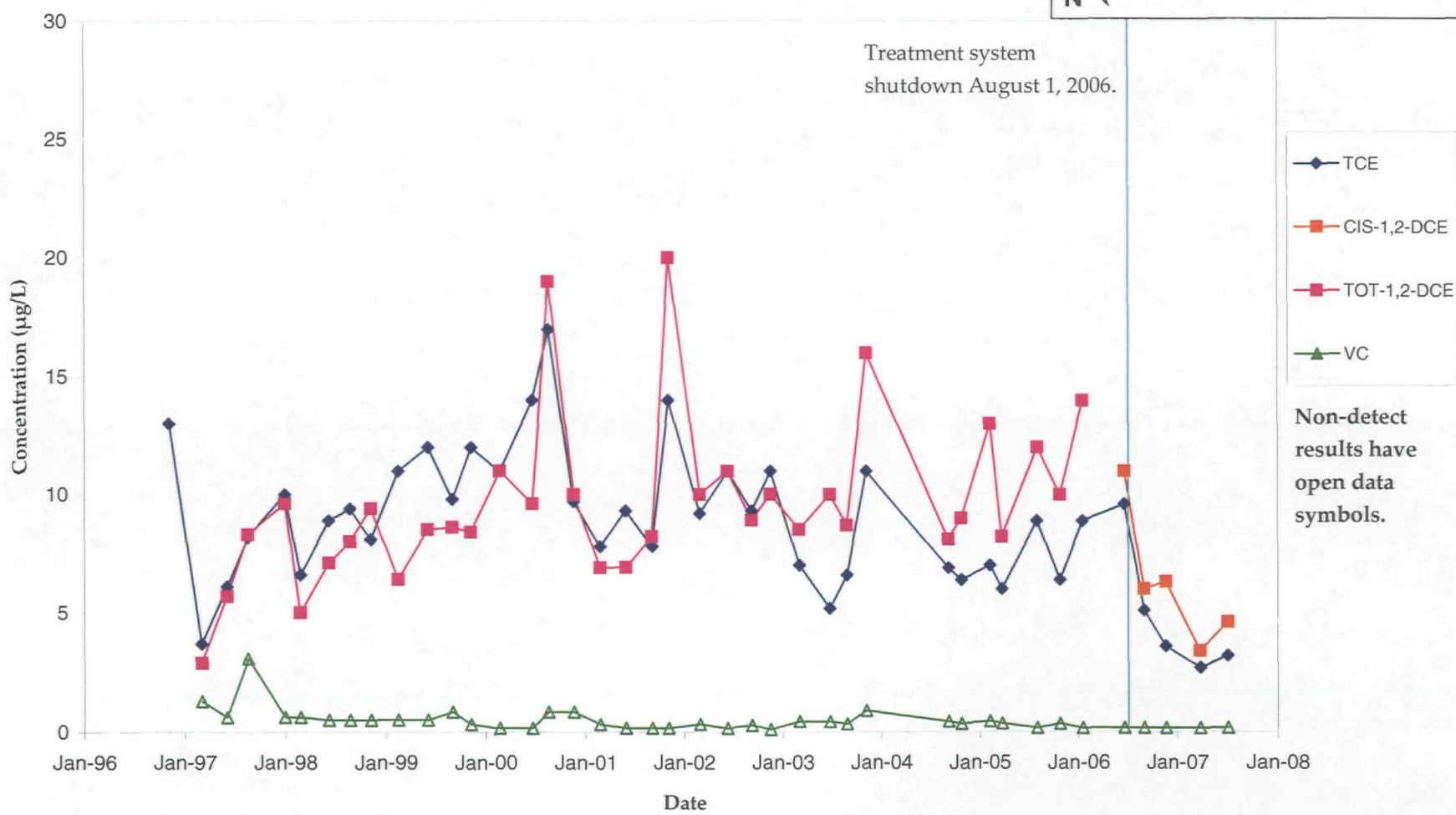
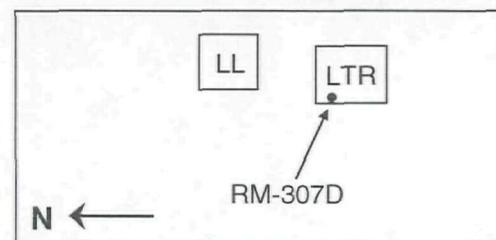
Non-detect
results have
open data
symbols.

e01

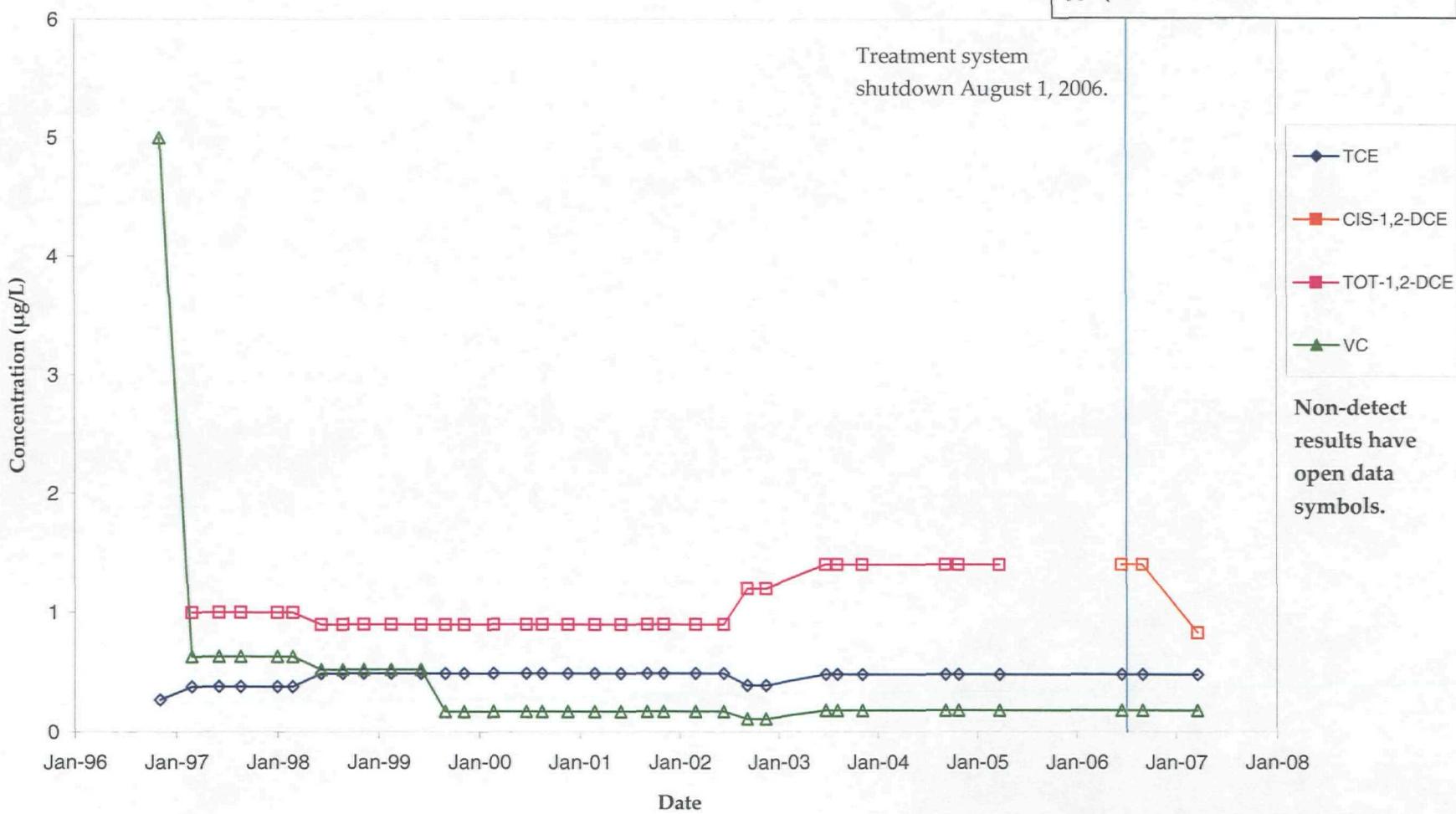
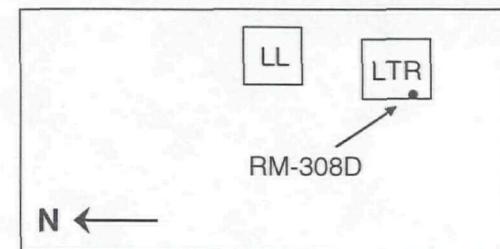
RM-306D
VOC Concentration Trends
Lemberger Landfill



RM-307D
VOC Concentration Trends
Lemberger Landfill



RM-308D
VOC Concentration Trends
Lemberger Landfill



501

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BACKGROUND UPPER 95% CONFIDENCE LIMIT CALCULATIONS
LEMBERGER LANDFILL AND LEMBERGER TRANSPORT AND RECYCLING SITES

DATE	SENTINEL WELL RM-002D						
	TCE	112 DCE	VC	111 TCA	111 DCA	111 CEA	111 DCE
5-Dec-96	4		< 5	19	17	3	3
26-Mar-97	4.1	15	< 0.63	25	21	5.3	2.7
24-Jun-97	4	12	< 0.63	22	18	3	2.3
17-Sep-97	3.5	10	< 0.63	16	13	2.5	2
20-Dec-97	3.5	12	< 0.63	20	16	3.3	2.7
16-Mar-98	3.4	9.1	< 0.63	16	12	2.1	1.7
23-Jun-98	3.1	6.3	< 0.52	12	9	1.7	1.5
18-Sep-98	2.6	6.2	< 0.52	12	8.6	1.5	1.3
3-Dec-98	2.8	7	< 0.52	15	9.8	2.2	1.4
11-Mar-99	3.5	7.2	< 0.52	14	10	2	1.6
24-Jun-99	2.5	5.2	< 0.52	11	7.5	1.1	1.3
22-Sep-99	2.4	4.7	< 0.17	9.7	6.5	1.2	1.1
4-Dec-99	2.1	3.9	< 0.17	7.9	6.2	< 0.315	0.89
6-Mar-00	2.2	3.5	< 0.17	8.8	4.9	< 0.315	0.64
20-Jul-00	1.9	2.7	< 0.17	6.1	3.2	< 0.315	0.7
18-Sep-00	1.8	2.8	< 0.17	6.4	3.9	0.65	0.59
15-Dec-00	1.8	2.5	< 0.17	6.2	3.8	0.67	0.53
9-Mar-01	1.6	2.9	< 0.17	6.8	4	< 0.315	< 0.235
26-Jun-01	1.5	1.9	< 0.17	4.7	3.1	< 0.315	0.51
1-Oct-01	1.4	2.9	< 0.17	5.9	4.7	1	0.65
7-Dec-01	1.7	3.5	< 0.17	6.2	5.5	1.1	0.83
27-Mar-02	1.5	2.7	< 0.17	5.9	4.5	1.1	0.81
19-Jul-02	0.98	1.1	< 0.17	2.4	2.3	< 0.315	< 0.235
24-Sep-02	1.1	2.1	< 0.11	4.2	3.3	< 0.42	< 0.28
12-Dec-02	1.2	2	< 0.11	4.3	3.5	< 0.42	< 0.28
25-Mar-03	1.2	1.7	< 0.18	3.7	2.5	< 0.485	< 0.285
24-Jul-03	1	< 0.7	< 0.18	2.6	1.2	< 0.485	< 0.285
23-Sep-03	0.73	< 0.7	< 0.18	2	0.92	< 0.485	< 0.285
3-Dec-03	0.8	< 0.7	< 0.18	1.9	0.79	< 0.485	< 0.285
28-Sep-04	0.54	1.2	< 0.18	< 0.11	1.8	< 0.14	< 0.27
30-Nov-04	0.54	< 0.7	< 0.18	1.7	1.5	< 0.485	< 0.285
18-Apr-05	< 0.24	< 0.7	< 0.18	1.2	< 0.375	< 0.485	< 0.285
30-Nov-05	< 0.24	< 0.7	< 0.18	0.94	< 0.375	< 0.485	< 0.285
12-Jul-06	< 0.24	< 0.7	< 0.18	< 0.45	< 0.375	< 0.485	< 0.285
# Observations:	34	33	34	34	34	34	34
% Nondetect:	8.8	21.2	100.0	5.9	8.8	50.0	38.2
Mean:	1.933	4.152	NA	8.297	6.210	1.181	0.951
Std Deviation:	1.175	3.797	NA	6.683	5.520	1.154	0.811
95% UCL:	4.28	11.75	NA	21.66	17.25	3.49	2.57
Nonparametric Limit:	NA	NA	LOQ	NA	NA	NA	NA

Notes:

Bold nondetect results have had one-half the detection limit substituted in the confidence limit calculations.

The 95% upper confidence limit (UCL) is equal to the mean plus 2 times the standard deviation.

A 95% UCL was calculated for each data set having 50% or fewer nondetect values.

A nonparametric limit was determined for each data set having between 50% and 100% nondetect values.

The LOQ is the "background limit" for each data set having 100% nondetect values.

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BACKGROUND UPPER 95% CONFIDENCE LIMIT CALCULATIONS
LEMBERGER LANDFILL AND LEMBERGER TRANSPORT AND RECYCLING SITES

DATE	SENTINEL WELL TERM-203D						
	TCE	112 DCE	VC	111 TCA	111 DCA	VC EA	111 DCE EA
5-Dec-96	0.5		< 5	6	2	< 5	< 5
28-Mar-97	< 0.19	1.4	< 0.63	5.6	2.4	< 1.1	< 0.56
23-Jun-97	< 0.19	1.4	< 0.63	5.4	2.3	< 1.1	< 0.56
17-Sep-97	0.46	1.2	< 0.63	4.3	1.8	< 1.1	0.62
20-Dec-97	0.47	1.6	< 0.63	5.7	2.6	< 1.1	< 0.56
16-Mar-98	0.42	1.6	< 0.63	5	2.3	< 1.1	< 0.56
23-Jul-98	< 0.245	1.3	< 0.52	5	2.3	< 0.63	< 0.47
18-Sep-98	< 0.245	1.4	< 0.52	5.7	2.5	< 0.63	0.51
3-Dec-98	0.57	1.6	< 0.52	7.2	2.9	< 0.63	< 0.47
8-Mar-99	0.94	2.1	< 0.52	8.3	3.8	< 0.63	0.64
7-Jul-99	0.72	1.9	< 0.52	9.1	3.7	< 0.63	0.6
22-Sep-99	0.81	1.9	< 0.17	8.1	3.3	< 0.63	0.61
4-Dec-99	0.83	1.8	< 0.17	6.9	3.3	< 0.63	0.54
6-Mar-00	0.74	1.6	< 0.17	9	2.9	< 0.63	< 0.47
17-Jul-00	0.88	2.1	< 0.17	8	2.9	< 0.63	0.51
18-Sep-00	0.99	2.3	< 0.17	9.5	4	< 0.63	0.59
15-Dec-00	< 0.245	2.3	< 0.17	9.3	4.1	< 0.63	0.59
19-Mar-01	0.93	2.3	< 0.17	9.1	4.1	< 0.63	0.54
26-Jun-01	1	2.5	< 0.17	10	4.7	< 0.63	0.71
1-Oct-01	0.94	2.1	< 0.17	9.5	3.9	< 0.63	0.61
5-Dec-01	1	1.8	< 0.17	8.3	3.7	< 0.63	0.59
12-Mar-02	1	2.1	< 0.17	9.3	3.7	< 0.63	0.63
19-Jul-02	0.8	1.5	< 0.17	5.6	3.1	< 0.63	< 0.47
3-Oct-02	0.77	1.5	< 0.11	7.2	2.7	< 0.84	< 0.56
12-Dec-02	1.1	1.6	< 0.11	8.1	3.3	< 0.84	< 0.56
17-Mar-03	0.9	1.7	< 0.11	8.5	3.3	< 0.84	0.72
21-Jul-03	0.84	1.8	< 0.18	8.7	3.2	< 0.97	< 0.57
28-Sep-03	0.77	1.5	< 0.18	7.4	2.7	< 0.97	< 0.57
3-Dec-03	0.98	1.8	< 0.18	8.5	3.1	< 0.97	< 0.57
29-Sep-04	0.91	1.9	< 0.18	9.3	3.6	< 0.28	0.63
30-Nov-04	0.86	1.5	< 0.18	7	2.8	< 0.97	0.79
9-Mar-05	0.83	< 0.7	< 0.18	6.6	2.8	< 0.97	< 0.57
18-Apr-05	0.75	< 0.7	< 0.18	7.1	2.6	< 0.97	< 0.57
29-Aug-05	0.75	< 0.7	< 0.18	6.3	2.1	< 0.97	< 0.57
30-Nov-05	0.85	< 0.7	< 0.18	7	2.3	< 0.97	< 0.57
14-Feb-06	0.72	< 0.7	< 0.18	5.5	1.8	< 0.97	< 0.57
11-Jul-06	0.74	< 0.7	< 0.18	5.6	2	< 0.97	< 0.57
# Observations:	37	36	37	37	37	37	37
% Nondetect:	13.5	16.7	100.0	0.0	0.0	100.0	54.1
Mean:	0.727	1.592	NA	7.370	2.989	NA	NA
Std Deviation:	0.257	0.507	NA	1.586	0.724	NA	NA
95% UCL:	1.24	2.61	NA	10.54	4.44	NA	NA
Nonparametric Limit:	NA	NA	LOQ	NA	NA	LOQ	0.79

Notes:

Bold nondetect results have had one-half the detection limit substituted in the confidence limit calculations.

The 95% upper confidence limit (UCL) is equal to the mean plus 2 times the standard deviation.

A 95% upper confidence limit was calculated for each data set having 50% or fewer nondetect values.

A nonparametric limit was determined for each data set having between 50% and 100% nondetect values.

The LOQ is the "background limit" for each data set having 100% nondetect values.

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BACKGROUND UPPER 95% CONFIDENCE LIMIT CALCULATIONS
LEMBERGER LANDFILL AND LEMBERGER TRANSPORT AND RECYCLING SITES

DATE	SENTINEL WELL RM-203						
	TCE	1,2-DCE	VC	1,1-DCA	1,1-DCA	DCEA	1,1-DCE
5-Dec-96	0.4		< 5	4	1	< 5	< 5
28-Mar-97	< 0.38	1	< 0.63	4.3	2.1	< 1.1	< 0.56
23-Jun-97	< 0.38	< 1	< 0.63	3.6	1.4	< 1.1	< 0.56
17-Sep-97	< 0.38	< 1	< 0.63	2.7	1.2	< 1.1	< 0.56
20-Dec-97	< 0.38	< 1	< 0.63	3.4	1.6	< 1.1	< 0.56
16-Mar-98	< 0.38	< 1	< 0.63	2.8	1.3	< 1.1	< 0.56
23-Jul-98	< 0.49	< 0.9	< 0.52	2.3	1.1	< 0.63	< 0.47
18-Sep-98	< 0.49	< 0.9	< 0.52	3.2	1.2	< 0.63	< 0.47
3-Dec-98	< 0.49	< 0.9	< 0.52	3.4	1.2	< 0.63	< 0.47
8-Mar-99	< 0.49	< 0.9	< 0.52	3.5	1.5	< 0.63	< 0.47
7-Jul-99	< 0.49	0.97	< 0.52	5.5	2.1	< 0.63	< 0.47
22-Sep-99	< 0.49	0.92	< 0.17	4.3	1.6	< 0.63	< 0.47
4-Dec-99	< 0.49	< 0.9	< 0.17	3.3	1.4	< 0.63	< 0.47
6-Mar-00	< 0.49	< 0.9	< 0.17	4	< 0.61	< 0.63	< 0.47
17-Jul-00	< 0.49	< 0.9	< 0.17	4.2	1.6	< 0.63	< 0.47
18-Sep-00	0.59	1.3	< 0.17	5.8	2.5	< 0.63	< 0.47
15-Dec-00	0.58	1.1	< 0.17	5.4	2.3	< 0.63	< 0.47
19-Mar-01	< 0.49	1	< 0.17	4.8	2.1	< 0.63	< 0.47
26-Jun-01	< 0.49	1	< 0.17	5.4	2.3	< 0.63	< 0.47
1-Oct-01	< 0.49	< 0.9	< 0.17	3.8	1.3	< 0.63	< 0.47
5-Dec-01	< 0.49	< 0.9	< 0.17	2.7	0.82	< 0.63	< 0.47
12-Mar-02	< 0.49	< 0.9	< 0.17	3.7	1.3	< 0.63	< 0.47
19-Jul-02	< 0.49	< 0.9	< 0.17	2.6	1.4	< 0.63	< 0.47
3-Oct-02	< 0.39	< 1.2	< 0.11	3.6	1.2	< 0.84	< 0.56
12-Dec-02	< 0.39	< 1.2	< 0.11	2.9	1.1	< 0.84	< 0.56
17-Mar-03	< 0.39	< 1.2	< 0.11	4.9	1.6	< 0.84	< 0.56
21-Jul-03	< 0.48	< 1.4	< 0.18	3.5	1.3	< 0.97	< 0.57
28-Sep-03	< 0.48	< 1.4	< 0.18	3.3	1.1	< 0.97	< 0.57
3-Dec-03	< 0.48	< 1.4	< 0.18	3.7	1.2	< 0.97	< 0.57
29-Sep-04	< 0.18	< 0.26	< 0.18	3.2	0.97	< 0.28	< 0.27
30-Nov-04	< 0.48	< 1.4	< 0.18	2.3	< 0.75	< 0.97	< 0.57
18-Apr-05	< 0.48	< 1.4	< 0.18	2	< 0.75	< 0.97	< 0.57
30-Nov-05	< 0.48	< 1.4	< 0.18	2.2	< 0.75	< 0.97	< 0.57
11-Jul-06	< 0.48	< 1.4	< 0.18	2.4	0.82	< 0.97	< 0.57
# Observations:	34	33	34	34	34	34	34
% Nondetect:	91.2	78.8	100.0	0.0	11.8	100.0	100.0
Mean:	NA	NA	NA	3.609	1.367	NA	NA
Std Deviation:	NA	NA	NA	1.007	0.488	NA	NA
95% UCL:	NA	NA	NA	5.62	2.34	NA	NA
Nonparametric Limit:	0.59	1.3	LOQ	NA	NA	LOQ	LOQ

Notes:

Bold nondetect results have had one-half the detection limit substituted in the confidence limit calculations.

The 95% upper confidence limit (UCL) is equal to the mean plus 2 times the standard deviation.

A 95% upper confidence limit was calculated for each data set having 50% or fewer nondetect values.

A nonparametric limit was determined for each data set having between 50% and 100% nondetect values.

The LOQ is the "background limit" for each data set having 100% nondetect values.

BACKGROUND UPPER 95% CONFIDENCE LIMIT CALCULATIONS
LEMBERGER LANDFILL AND LEMBERGER TRANSPORT AND RECYCLING SITES

DATE	SENTINEL WELL RWM-210D						
	11-DCEA	11-DCEB	11-DCEC	11-DCEV	11-DCA	11-DCEA	11-DCEB
4-Dec-96	3		< 5	19	10	< 5	2
25-Mar-97	3.5	10	< 0.63	26	14	2.2	1.9
23-Jun-97	4	10	< 0.63	26	14	1.4	2.2
16-Sep-97	3.5	8.8	< 0.63	21	11	1.1	2
21-Dec-97	3.6	11	< 0.63	28	14	1.4	2.8
24-Mar-98	3.7	10	< 0.63	27	14	1.4	2.5
23-Jun-98	3.9	8.6	< 0.52	22	12	1.1	1.9
18-Sep-98	3.7	8.1	< 0.52	24	12	1.1	2.2
3-Dec-98	3.8	9.6	< 0.52	31	13	< 0.63	2.1
11-Mar-99	4.8	13	< 0.52	34	17	1.3	3
24-Jun-99	4.3	12	< 0.52	36	18	1.2	3.5
23-Sep-99	4.7	11	< 0.17	31	15	1.1	2.6
4-Dec-99	4.2	9.3	< 0.17	26	14	< 0.63	2.5
6-Mar-00	4.6	9.3	< 0.17	35	13	< 0.63	1.9
17-Jul-00	4.7	11	< 0.17	32	13	1	2.7
18-Sep-00	4.9	12	< 0.17	35	18	1	3.1
15-Dec-00	4.8	12	< 0.17	35	18	0.95	3
19-Mar-01	4.8	11	< 0.17	33	17	0.75	2.7
26-Jun-01	5.3	11	< 0.17	37	19	0.84	2.9
1-Oct-01	4.7	9.5	< 0.17	31	15	0.65	2.5
4-Dec-01	5.2	9.8	< 0.17	32	15	< 0.63	2.8
27-Mar-02	4.7	10	< 0.17	34	17	0.96	3.3
19-Jul-02	4.2	8.7	< 0.17	22	15	< 0.63	2.8
24-Sep-02	4.9	9.7	< 0.11	31	15	< 0.84	2.4
12-Dec-02	4.8	8.9	< 0.11	28	14	< 0.84	2.6
25-Mar-03	5.2	9.2	< 0.18	28	14	< 0.97	2.6
24-Jul-03	4.3	10	< 0.18	31	15	< 0.97	2.1
23-Sep-03	4	8.1	< 0.18	28	14	< 0.97	2.5
3-Dec-03	5	9.8	< 0.18	32	17	< 0.97	3.1
28-Sep-04	4.6	11	< 0.18	36	19	< 0.28	3.3
30-Nov-04	4.5	8.6	< 0.18	26	14	< 0.97	2.7
9-Mar-05	4.5	8.8	< 0.18	26	15	< 0.97	2.7
18-Apr-05	4.4	8.1	< 0.18	27	14	< 0.97	2.5
29-Aug-05	3.8	7.7	< 0.18	22	13	< 0.97	2
30-Nov-05	4.8	8.2	< 0.18	28	15	< 0.97	3.1
14-Feb-06	4.1	7.6	< 0.18	24	13	< 0.97	2.5
11-Jul-06	4.3	7.5	< 0.18	23	13	< 0.97	2.5
# Observations:	37	36	37	37	37	37	37
% Nondetect:	0.0	0.0	100.0	0.0	0.0	54.1	0.0
Mean:	4.373	9.692	NA	28.838	14.676	NA	2.581
Std Deviation:	0.550	1.382	NA	4.822	2.135	NA	0.427
95% UCL:	5.47	12.46	NA	38.48	18.95	NA	3.44
Nonparametric Limit:	NA	NA	LOQ	NA	NA	2.2	NA

Notes:

Bold nondetect results have had one-half the detection limit substituted in the confidence limit calculations.

The 95% upper confidence limit (UCL) is equal to the mean plus 2 times the standard deviation.

A 95% upper confidence limit was calculated for each data set having 50% or fewer nondetect values.

A nonparametric limit was determined for each data set having between 50% and 100% nondetect values.

The LOQ is the "background limit" for each data set having 100% nondetect values.

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BACKGROUND UPPER 95% CONFIDENCE LIMIT CALCULATIONS
LEMBERGER LANDFILL AND LEMBERGER TRANSPORT AND RECYCLING SITES

SENTINEL WELL RM-2101							
DATE	TCE	1,2-DCE	VC	111-TCA	11-DCA	CEA	11-DCE
4-Dec-96	3	< 6	26	15	< 5	3	
25-Mar-97	2.9	9.9	< 0.63	26	15	2.4	1.9
23-Jun-97	3.5	11	< 0.63	30	16	1.5	2.2
16-Sep-97	2.4	7.2	< 0.63	18	10	< 1.1	1.5
21-Dec-97	3	10	< 0.63	26	15	1.2	2.3
24-Mar-98	3.1	9.3	< 0.63	26	13	< 1.1	2.2
23-Jun-98	3	7	< 0.52	21	11	0.9	1.4
18-Sep-98	2.7	6.6	< 0.52	21	9.9	0.77	1.5
3-Dec-98	2.7	7.6	< 0.52	28	11	< 0.63	1.7
11-Mar-99	3.3	8.7	< 0.52	28	13	1	2.1
24-Jun-99	3	8.2	< 0.52	28	13	0.76	2.1
23-Sep-99	3.1	7.6	< 0.17	25	11	0.7	1.5
4-Dec-99	3	6.2	< 0.17	20	9.8	< 0.63	1.5
6-Mar-00	3.2	5.7	< 0.17	26	8.5	< 0.63	0.96
17-Jul-00	2.7	5.3	< 0.17	18	6.8	< 0.63	0.82
18-Sep-00	2.9	6.1	< 0.17	19	9.1	< 0.63	1
15-Dec-00	2.7	5.7	< 0.17	20	8.8	< 0.63	1.2
19-Mar-01	2.6	5.3	< 0.17	19	8.3	< 0.63	0.65
26-Jun-01	2.6	5.2	< 0.17	19	9	< 0.63	1
1-Oct-01	2.5	4.6	< 0.17	17	7.8	< 0.63	0.91
4-Dec-01	2.7	5	< 0.17	18	8.5	< 0.63	1.4
27-Mar-02	2.9	5.6	< 0.17	22	9.7	< 0.63	1.1
19-Jul-02	2	4	< 0.17	13	7.7	< 0.63	1.1
24-Sep-02	2.7	5	< 0.11	19	7.8	< 0.84	0.79
12-Dec-02	3	4.5	< 0.11	18	8	< 0.84	< 0.28
25-Mar-03	2.8	4.3	< 0.18	17	6.7	< 0.97	1
24-Jul-03	2.5	4.5	< 0.18	17	6.5	< 0.97	0.61
23-Sep-03	2.3	3.5	< 0.18	15	6.1	< 0.97	0.94
3-Dec-03	2.4	4.2	< 0.18	16	6.8	< 0.97	1.1
28-Sep-04	2.2	4.7	< 0.18	18	< 0.11	< 0.28	< 0.135
30-Nov-04	2	3.9	< 0.18	13	6.3	< 0.97	1.1
18-Apr-05	2.1	3.7	< 0.18	14	6.1	< 0.97	0.61
30-Nov-05	2.6	4	< 0.18	16	6.6	< 0.97	1.2
11-Jul-06	2.2	3.4	< 0.18	13	5.4	< 0.97	1.1
# Observations:	34	33	34	34	34	34	34
% Nondetect:	0.0	0.0	100.0	0.0	2.9	76.5	5.9
Mean:	2.715	5.985	NA	20.294	9.215	NA	1.291
Std Deviation:	0.370	2.063	NA	4.896	3.340	NA	0.619
95% UCL:	3.46	10.11	NA	30.09	15.89	NA	2.53
Nonparametric Limit:	NA	NA	LOQ	NA	NA	2.4	NA

Notes:

Bold nondetect results have had one-half the detection limit substituted in the confidence limit calculations.

The 95% upper confidence limit (UCL) is equal to the mean plus 2 times the standard deviation.

A 95% upper confidence limit was calculated for each data set having 50% or fewer nondetect values.

A nonparametric limit was determined for each data set having between 50% and 100% nondetect values.

The LOQ is the "background limit" for each data set having 100% nondetect values.

BACKGROUND UPPER 95% CONFIDENCE LIMIT CALCULATIONS
LEMBERGER LANDFILL AND LEMBERGER TRANSPORT AND RECYCLING SITES

DATE	SENTINEL WELL RM-211D						
	111-TCE	112-DCE	113-VC	114-TCA	115-DCA	116-CEA	117-DCE
4-Dec-96	1		< 5	12	8	7	0.9
10-Apr-97	< 0.38	< 1	< 0.63	2.7	1.3	< 1.1	< 0.56
25-Jun-97	< 0.38	< 1	< 0.63	2.2	1.2	< 1.1	< 0.56
16-Sep-97	< 0.38	< 1	< 0.63	1.9	1.2	< 1.1	< 0.56
13-Dec-97	< 0.38	< 1	< 0.63	3.7	2	< 1.1	< 0.56
21-Mar-98	< 0.38	< 1	< 0.63	1.4	0.6	< 1.1	< 0.56
22-Jun-98	< 0.49	< 0.9	< 0.52	1.5	1	< 0.63	< 0.47
16-Sep-98	< 0.49	< 0.9	< 0.52	1.9	1.2	< 0.63	< 0.47
2-Dec-98	< 0.49	< 0.9	< 0.52	2.2	1.2	< 0.63	< 0.47
15-Mar-99	< 0.49	< 0.9	< 0.52	1.6	0.82	< 0.63	< 0.47
18-Jun-99	< 0.49	< 0.9	< 0.52	1.5	0.75	< 0.63	< 0.47
21-Sep-99	< 0.49	< 0.9	< 0.17	1.7	0.78	< 0.63	< 0.47
2-Dec-99	< 0.49	< 0.9	< 0.17	1.2	< 0.305	< 0.63	< 0.47
7-Mar-00	< 0.49	< 0.9	< 0.17	0.79	< 0.305	< 0.63	< 0.47
18-Jul-00	< 0.49	< 0.9	< 0.17	0.65	< 0.305	< 0.63	< 0.47
21-Sep-00	< 0.49	< 0.9	< 0.17	0.85	< 0.305	< 0.63	< 0.47
12-Dec-00	< 0.49	< 0.9	< 0.17	< 0.265	< 0.305	< 0.63	< 0.47
14-Mar-01	< 0.49	< 0.9	< 0.17	0.57	< 0.305	< 0.63	< 0.47
22-Jun-01	< 0.49	< 0.9	< 0.17	1.3	0.69	< 0.63	< 0.47
4-Sep-01	< 0.49	< 0.9	< 0.17	1.8	0.86	< 0.63	< 0.47
3-Dec-01	0.61	< 0.9	< 0.17	1.4	0.63	< 0.63	< 0.47
16-Mar-02	< 0.49	< 0.9	< 0.17	< 0.265	< 0.305	< 0.63	< 0.47
6-Jul-02	< 0.49	< 0.9	< 0.17	2.6	2	< 0.63	< 0.47
1-Oct-02	< 0.39	< 1.2	< 0.11	1	< 0.435	< 0.84	< 0.56
11-Dec-02	< 0.39	< 1.2	< 0.11	< 0.325	< 0.435	< 0.84	< 0.56
12-Mar-03	< 0.39	< 1.2	< 0.11	< 0.325	< 0.435	< 0.84	< 0.56
6-Jul-03	< 0.48	< 1.4	< 0.18	< 0.45	< 0.375	< 0.97	< 0.57
17-Sep-03	< 0.48	< 1.4	< 0.18	< 0.45	< 0.375	< 0.97	< 0.57
4-Dec-03	< 0.48	< 1.4	< 0.18	< 0.45	< 0.375	< 0.97	< 0.57
27-Sep-04	< 0.18	< 0.26	< 0.18	< 0.11	0.66	< 0.28	< 0.27
18-Apr-05	< 0.48	< 1.4	< 0.18	< 0.45	< 0.375	< 0.97	< 0.57
13-Jul-06	< 0.48	< 1.4	< 0.18	< 0.45	< 0.375	< 0.97	< 0.57
# Observations:	32	31	32	32	32	32	32
% Nondetect:	93.8	100.0	100.0	31.3	46.9	96.9	96.9
Mean:	NA	NA	NA	1.563	0.944	NA	NA
Std Deviation:	NA	NA	NA	2.089	1.369	NA	NA
95% UCL:	NA	NA	NA	5.74	3.68	NA	NA
Nonparametric Limit:	1.0	LOQ	LOQ	NA	NA	7.0	0.9

Notes:

Bold nondetect results have had one-half the detection limit substituted in the confidence limit calculations.

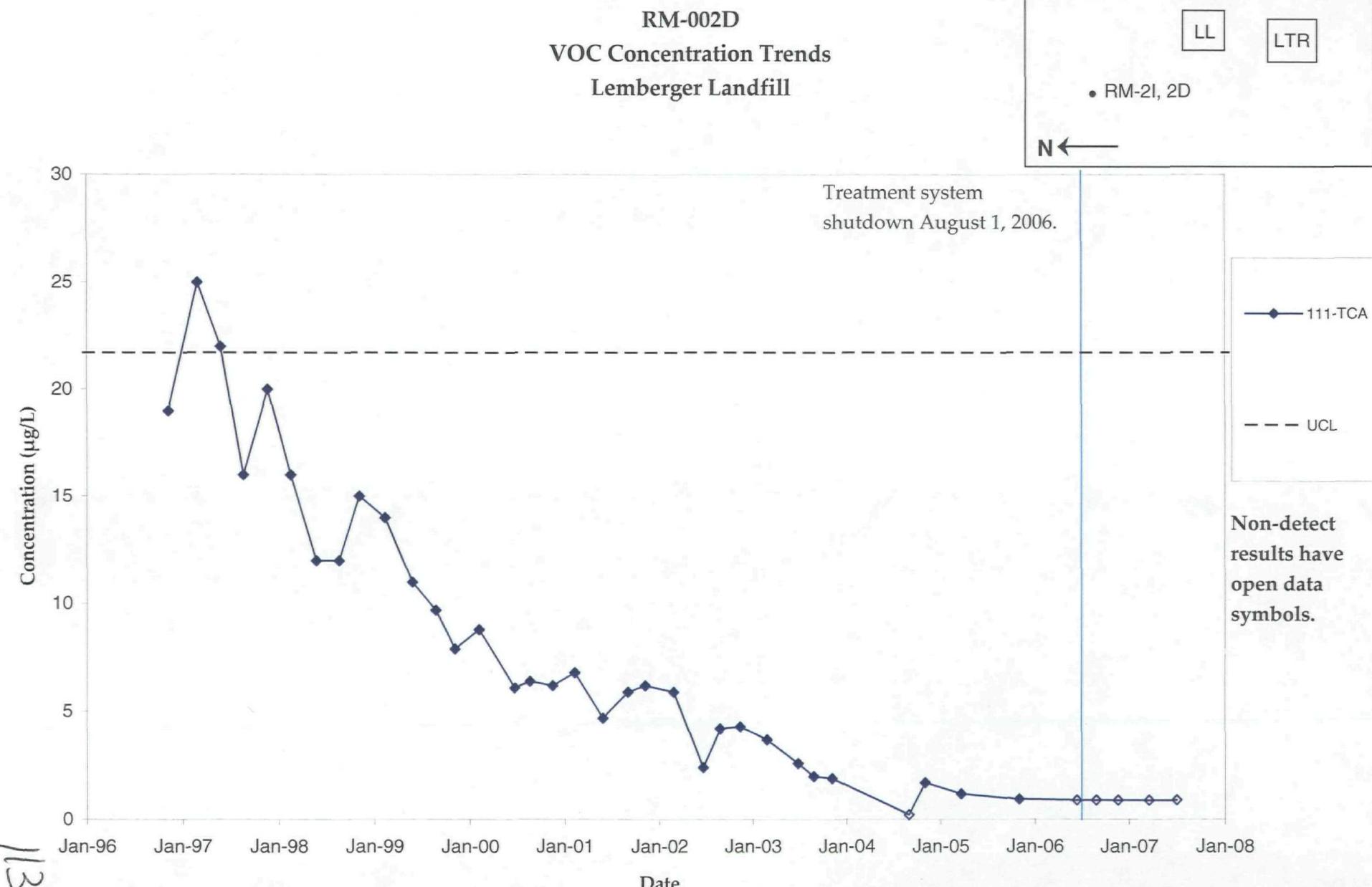
The 95% upper confidence limit (UCL) is equal to the mean plus 2 times the standard deviation.

A 95% upper confidence limit was calculated for each data set having 50% or fewer nondetect values.

A nonparametric limit was determined for each data set having between 50% and 100% nondetect values.

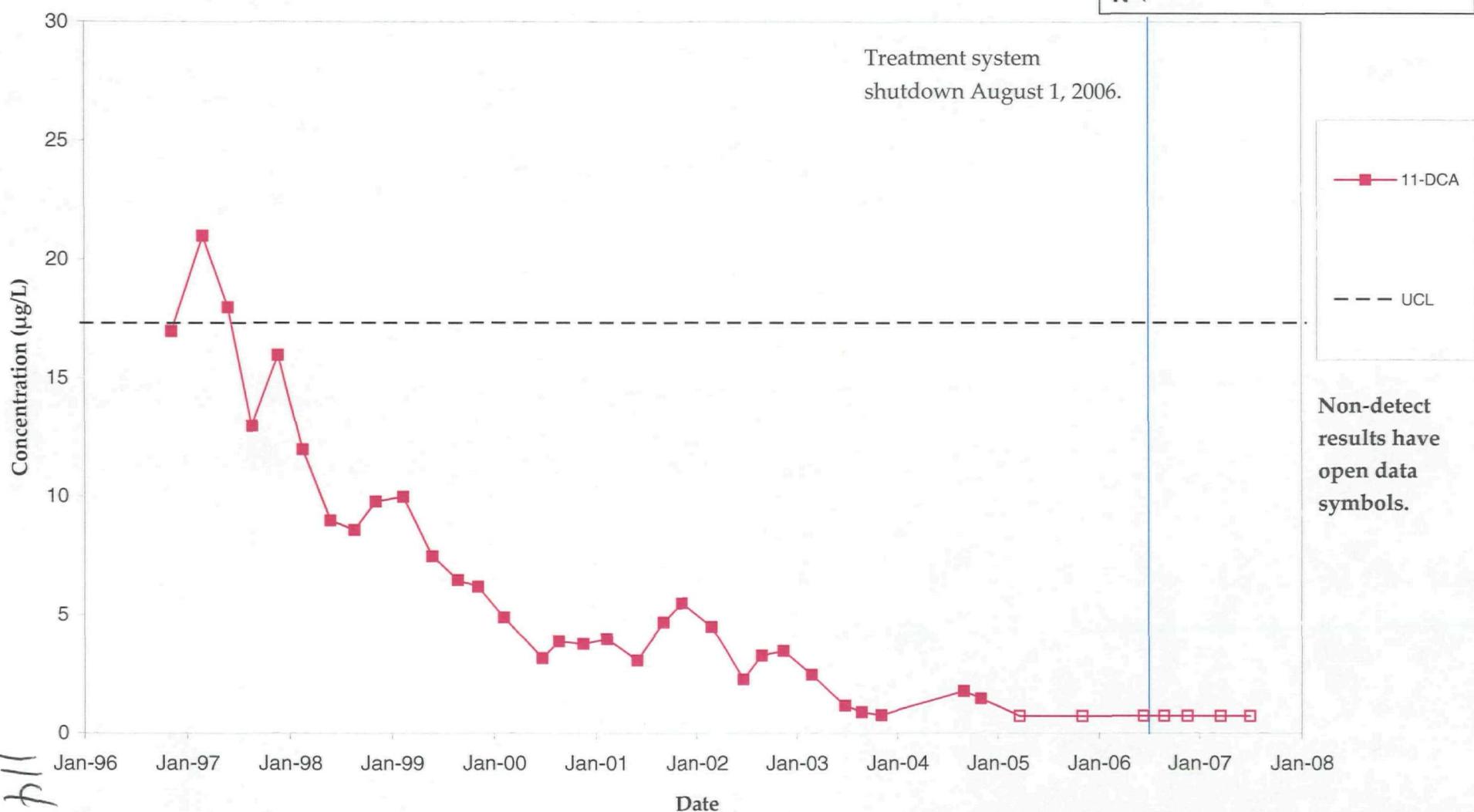
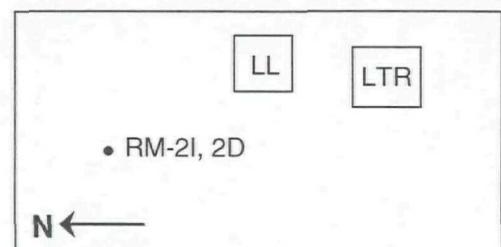
The LOQ is the "background limit" for each data set having 100% nondetect values.

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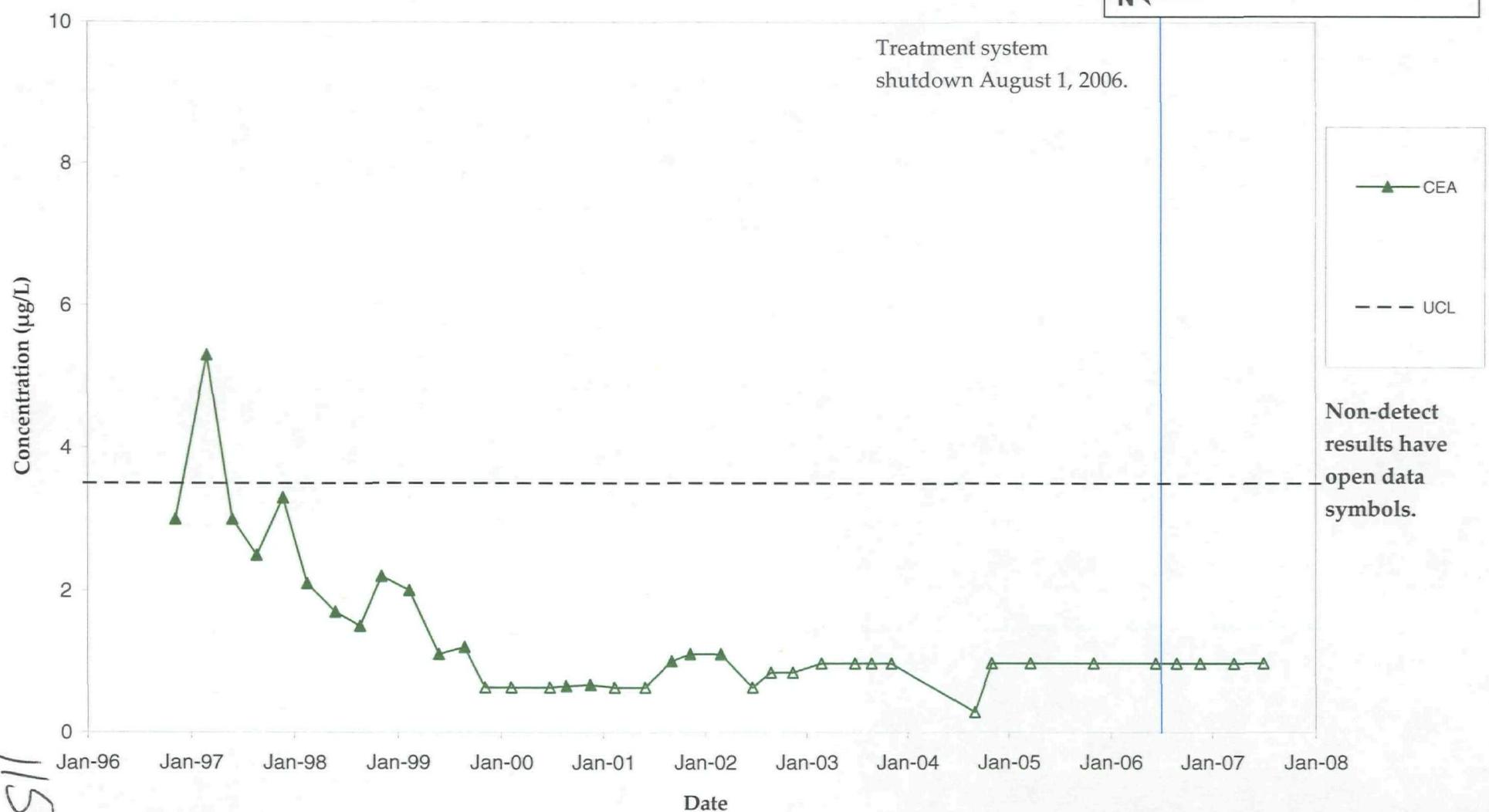
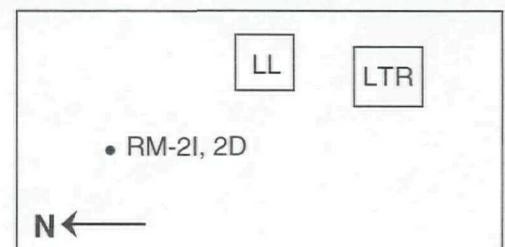


RM-002D
VOC Concentration Trends
Lemberger Landfill





RM-002D
VOC Concentration Trends
Lemberger Landfill



RM-002D

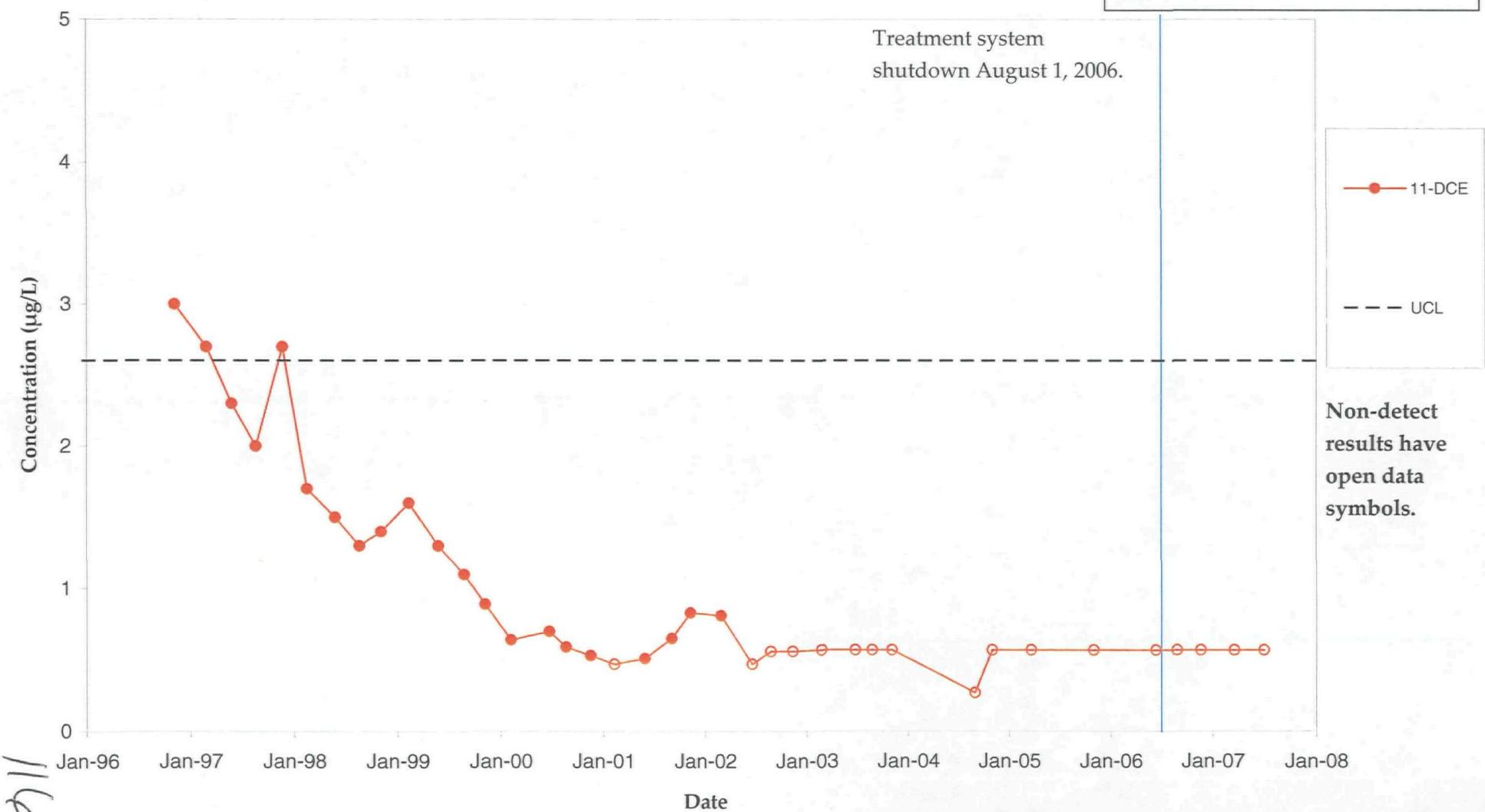
VOC Concentration Trends

Lemberger Landfill

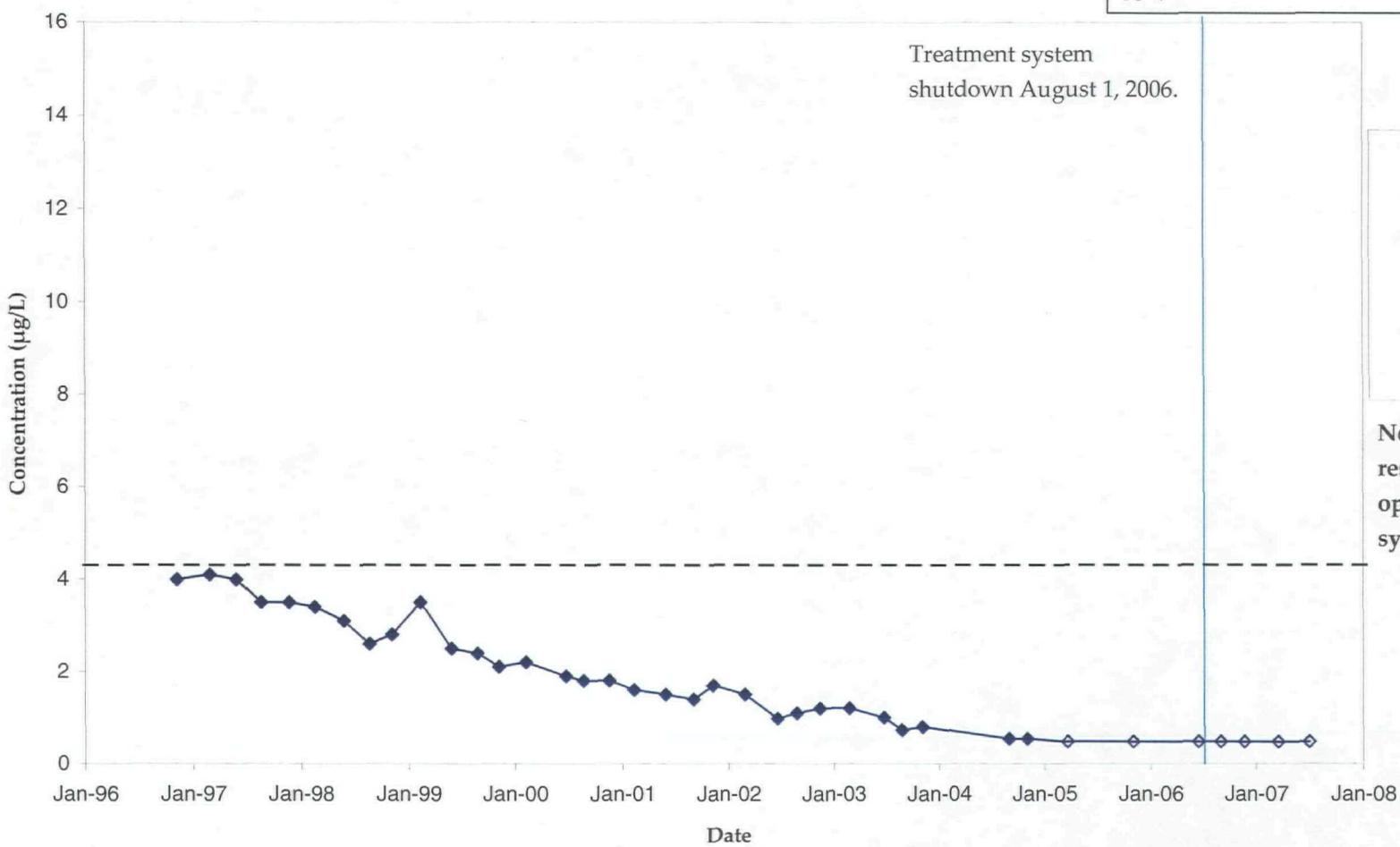
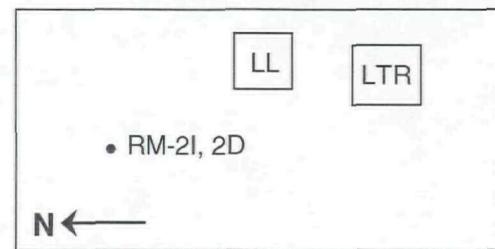
- RM-2I, 2D

LTR

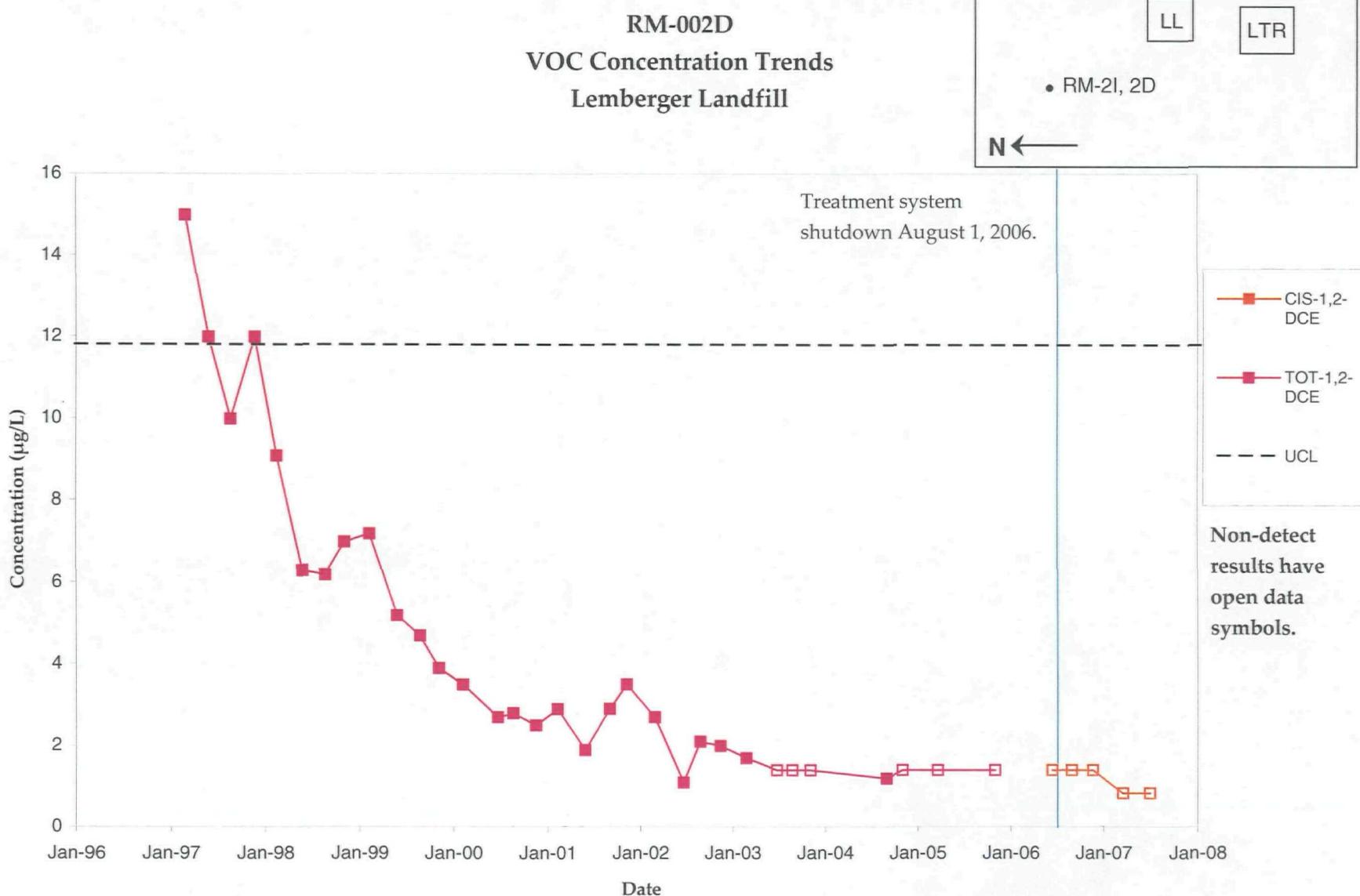
N ←



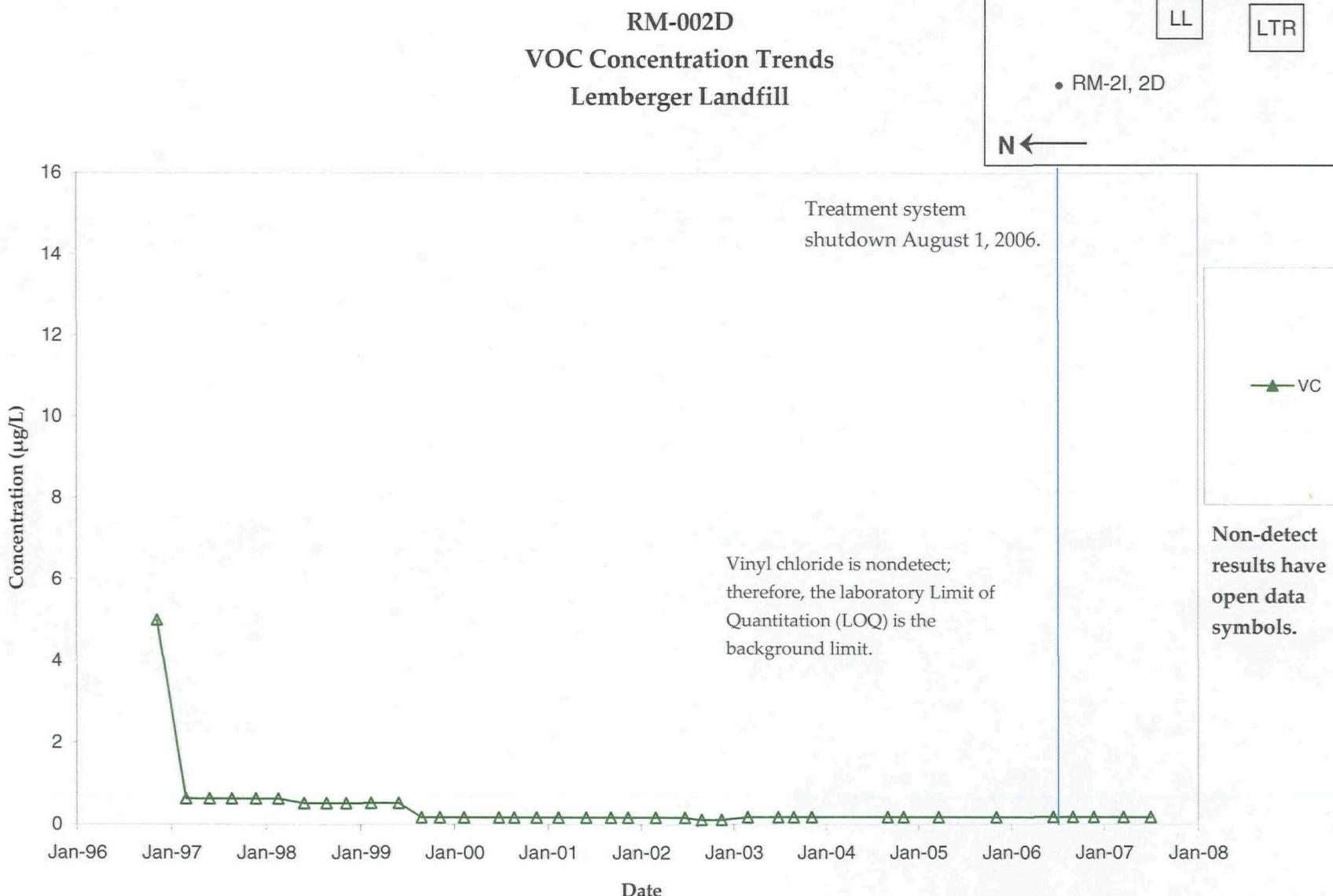
RM-002D
VOC Concentration Trends
Lemberger Landfill



L||

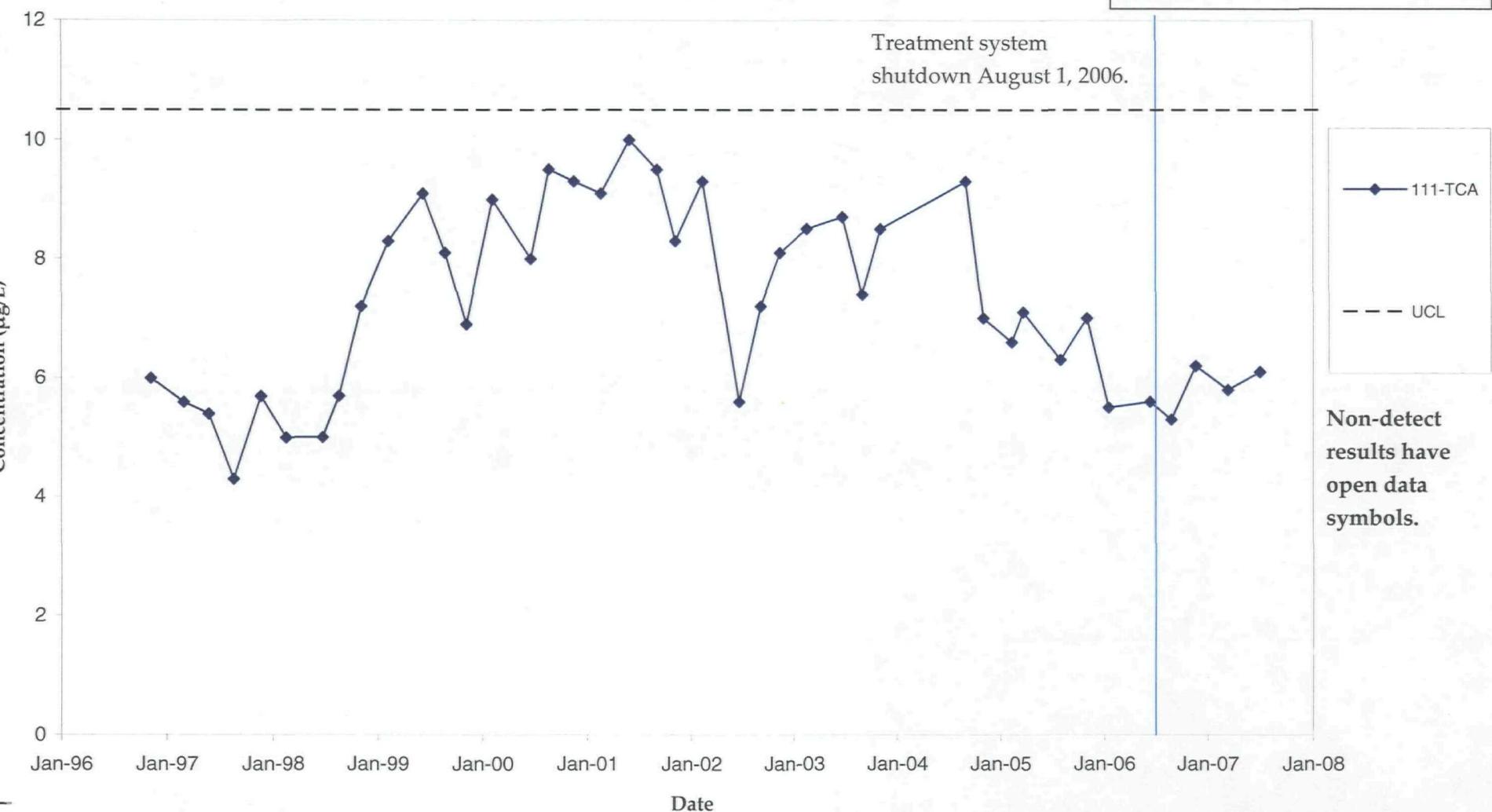


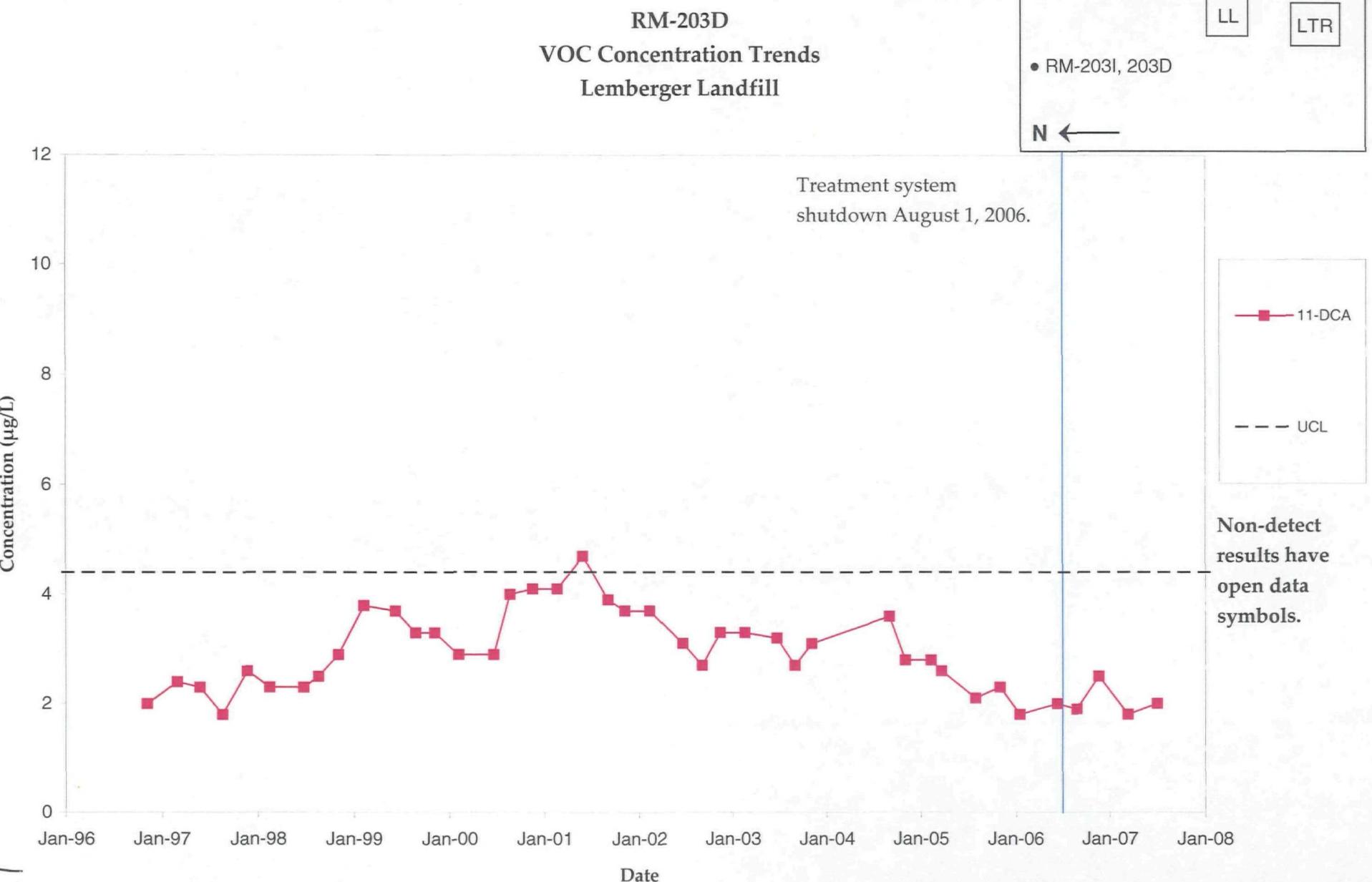
8/1



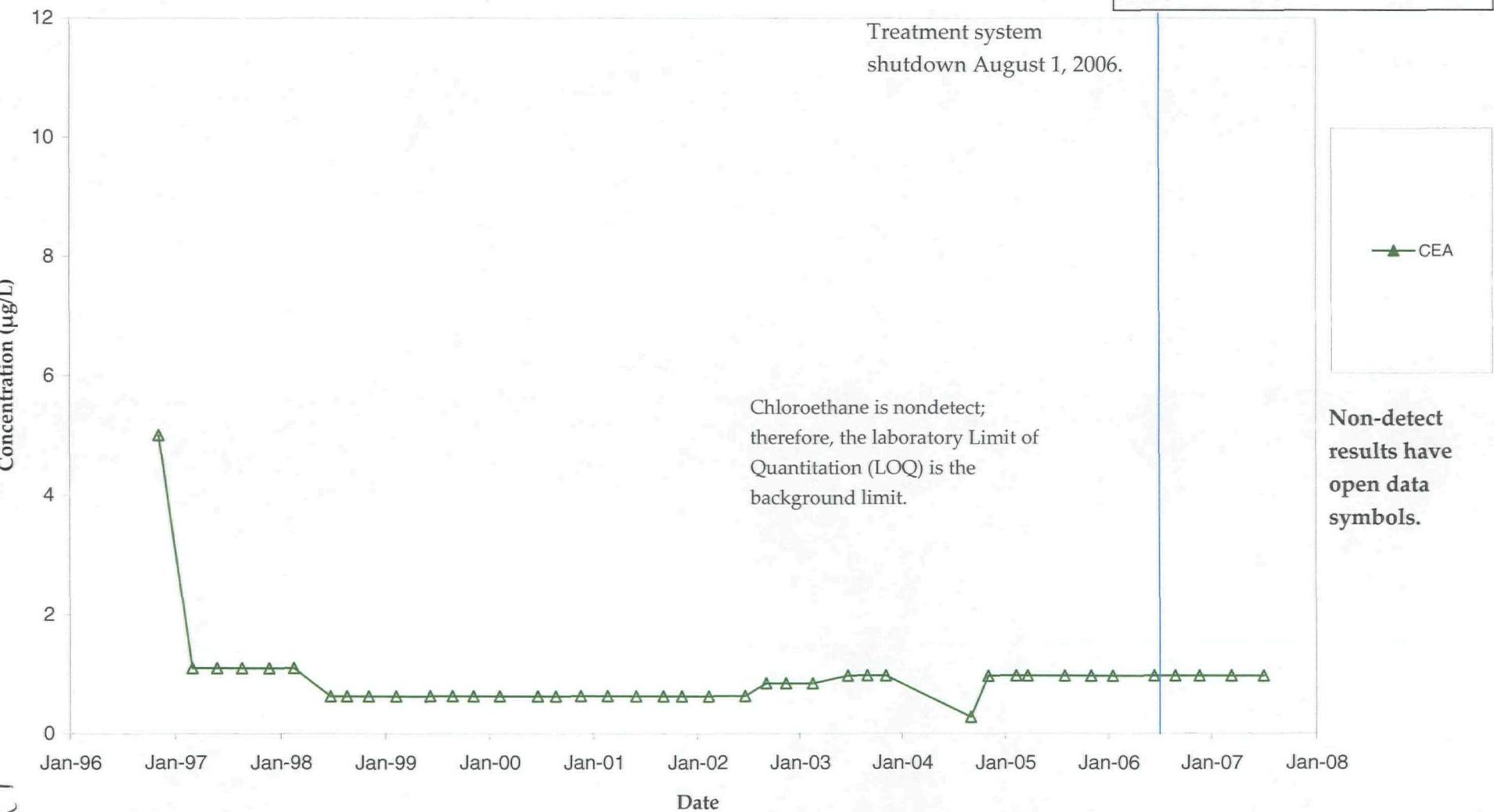
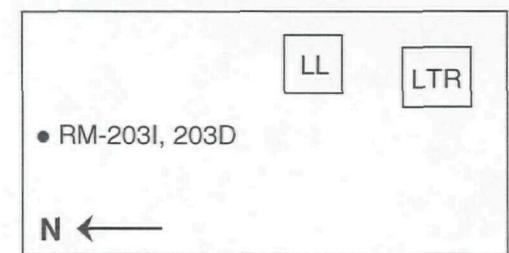
b11

RM-203D
VOC Concentration Trends
Lemberger Landfill

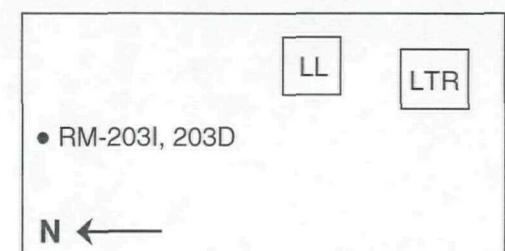
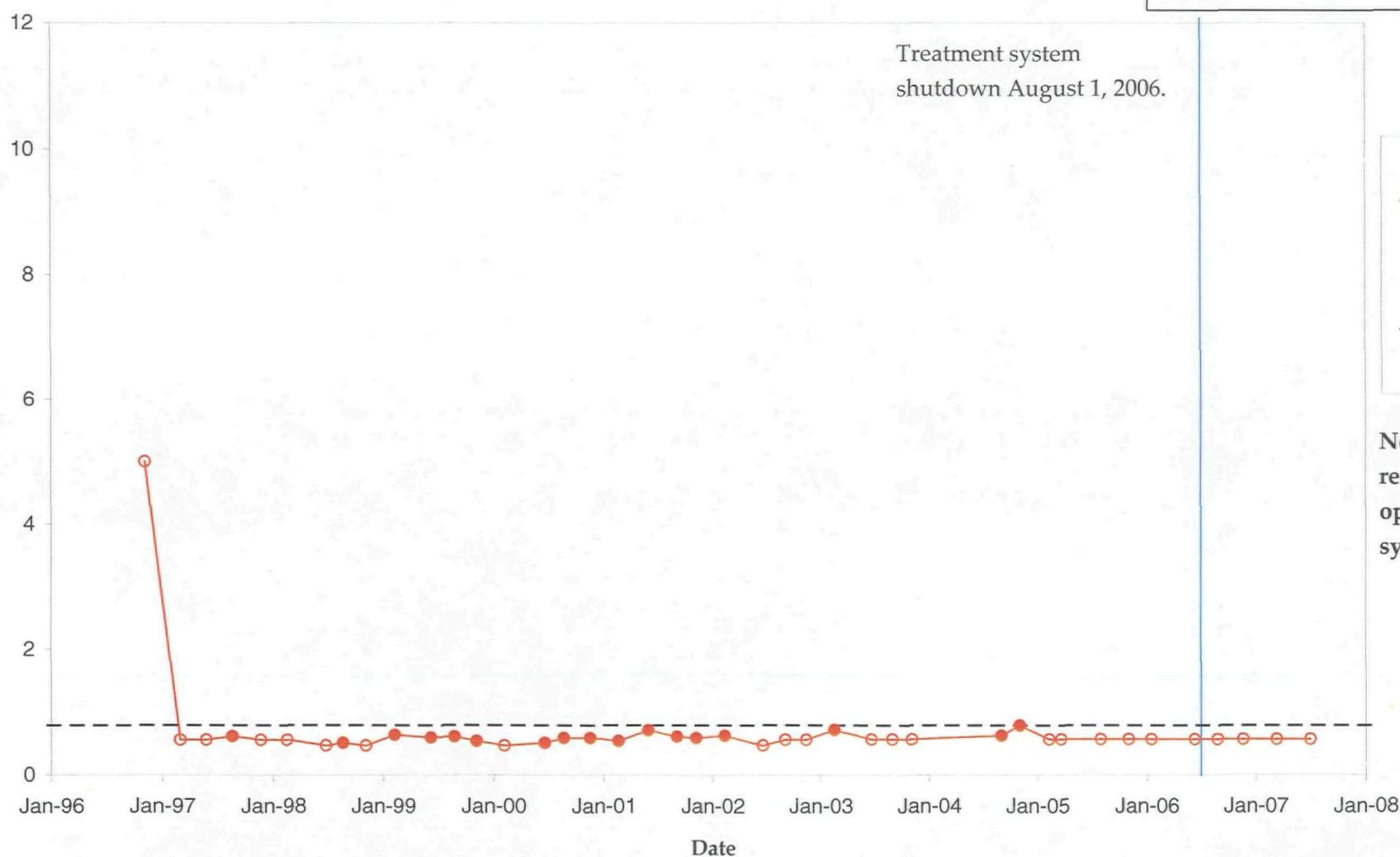




RM-203D
VOC Concentration Trends
Lemberger Landfill



RM-203D
VOC Concentration Trends
Lemberger Landfill



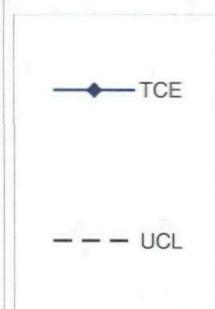
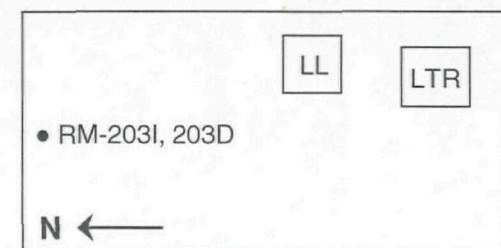
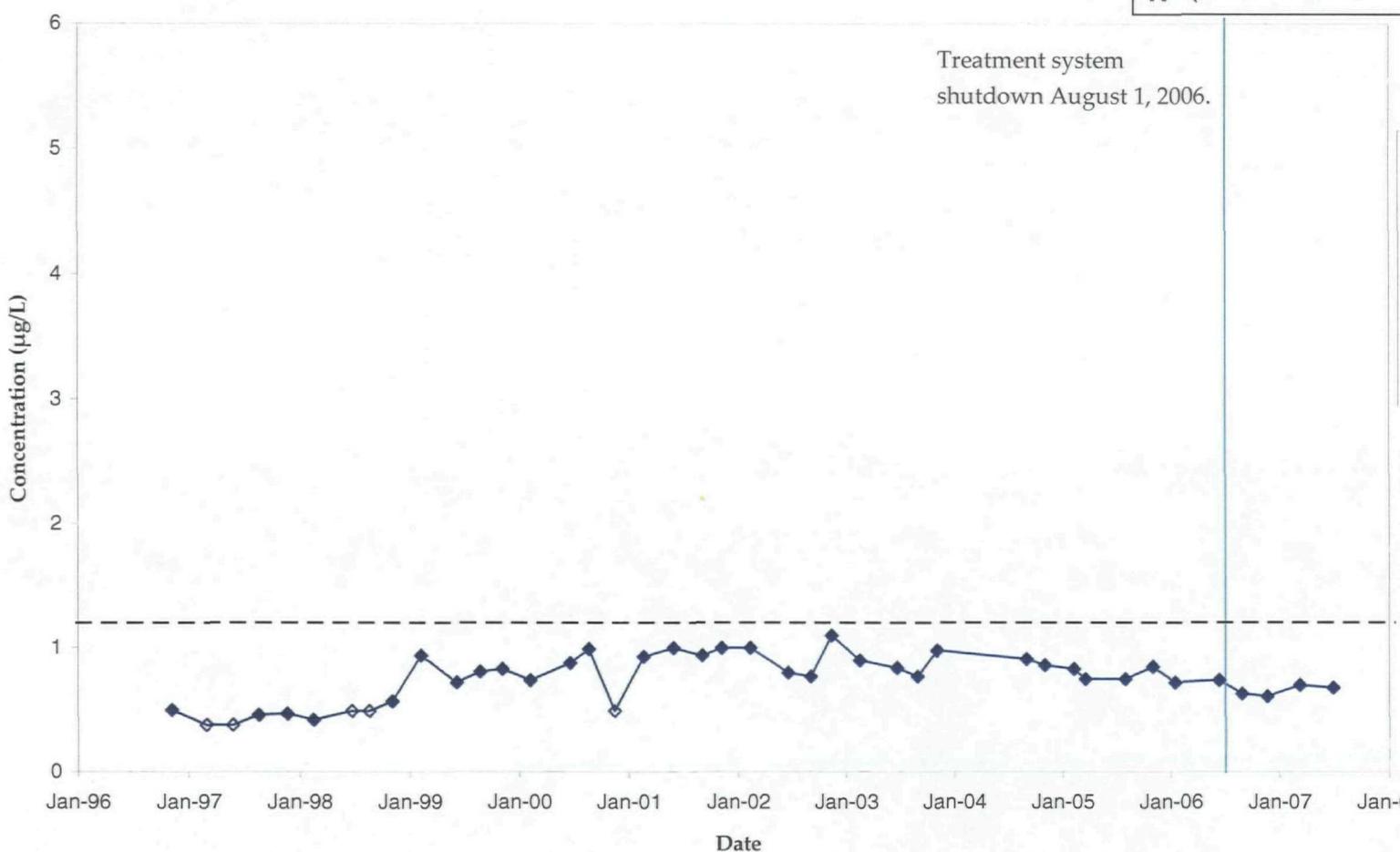
Treatment system
shutdown August 1, 2006.

—●— 11-DCE

- - - UCL

Non-detect
results have
open data
symbols.

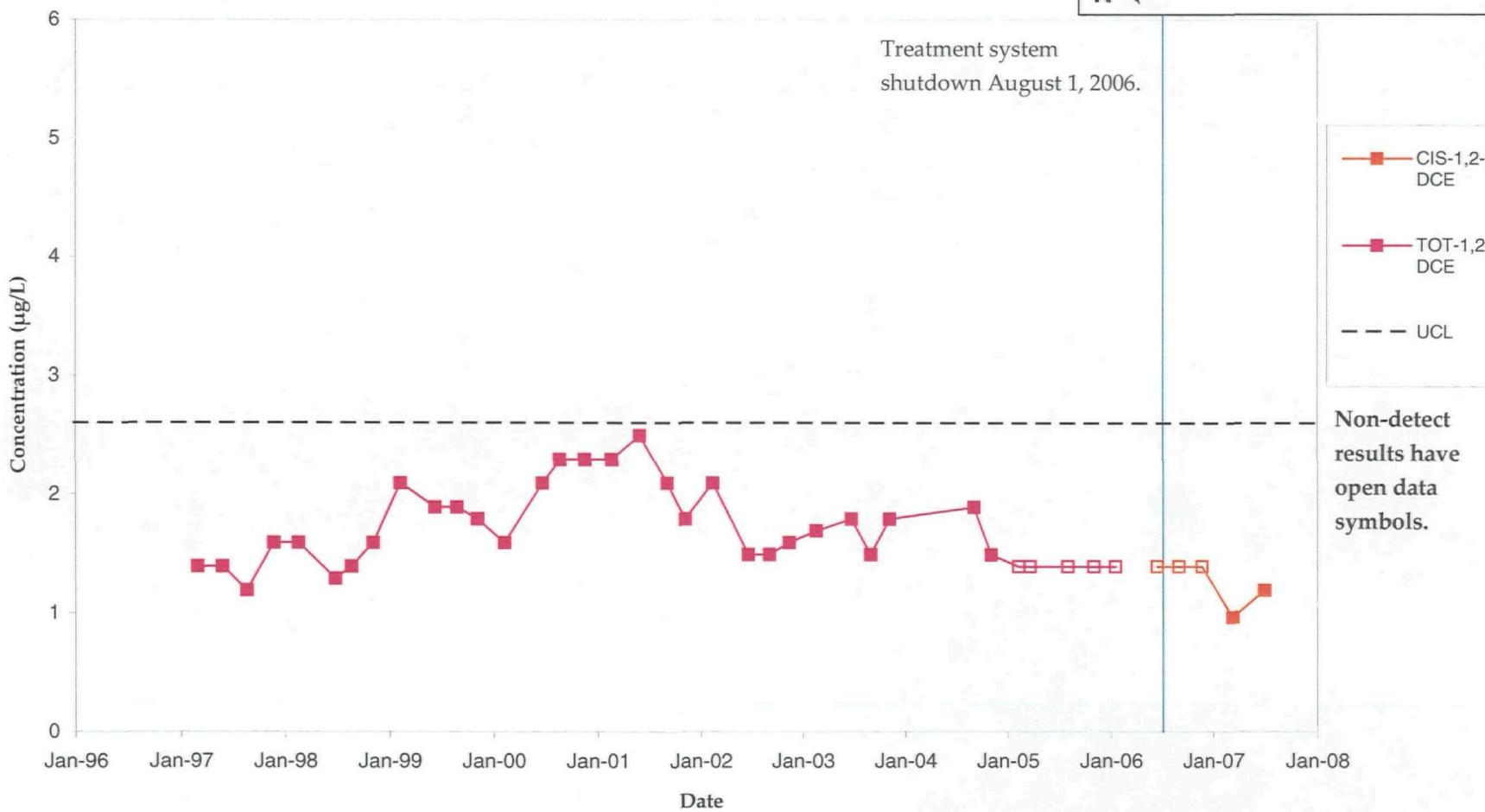
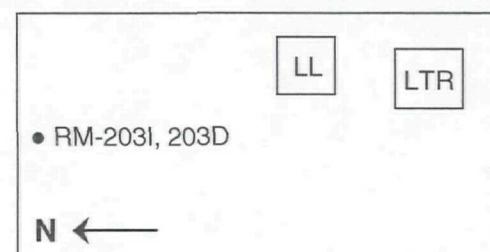
RM-203D
VOC Concentration Trends
Lemberger Landfill



Non-detect results have open data symbols.

hcl

RM-203D
VOC Concentration Trends
Lemberger Landfill



RM-203D

VOC Concentration Trends Lemberger Landfill

- RM-203I, 203D

N ←

Treatment system shutdown August 1, 2006.

Vinyl chloride is nondetect; therefore, the laboratory Limit of Quantitation (LOQ) is the background limit.

Treatment system
shutdown August 1, 2006.

Vinyl chloride is nondetect; therefore, the laboratory Limit of Quantitation (LOQ) is the background limit.

Non-detect results have open data symbols.

VC

RM-203I
VOC Concentration Trends
Lemberger Landfill

LL LTR

• RM-203I, 203D

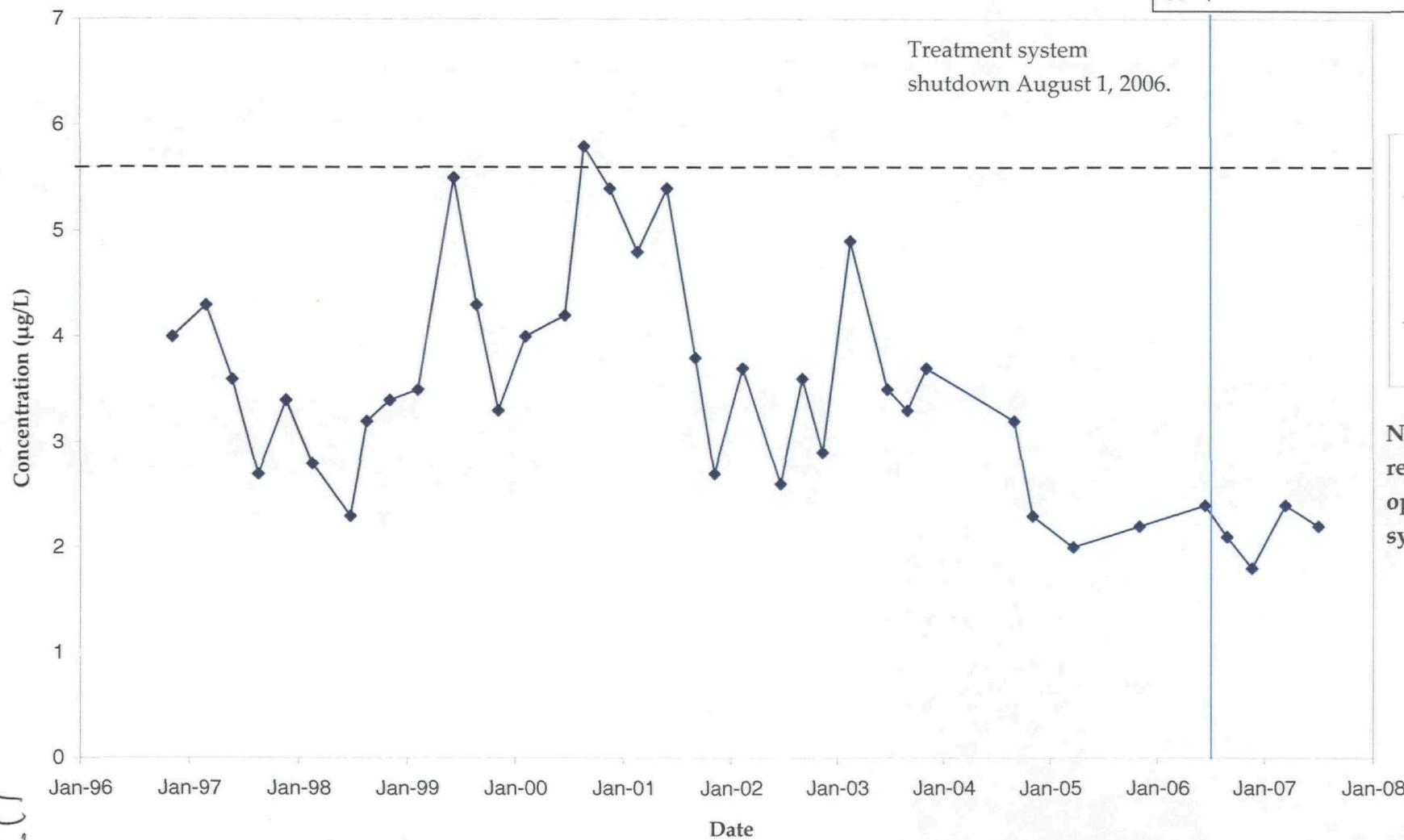
N ←

Treatment system
shutdown August 1, 2006.

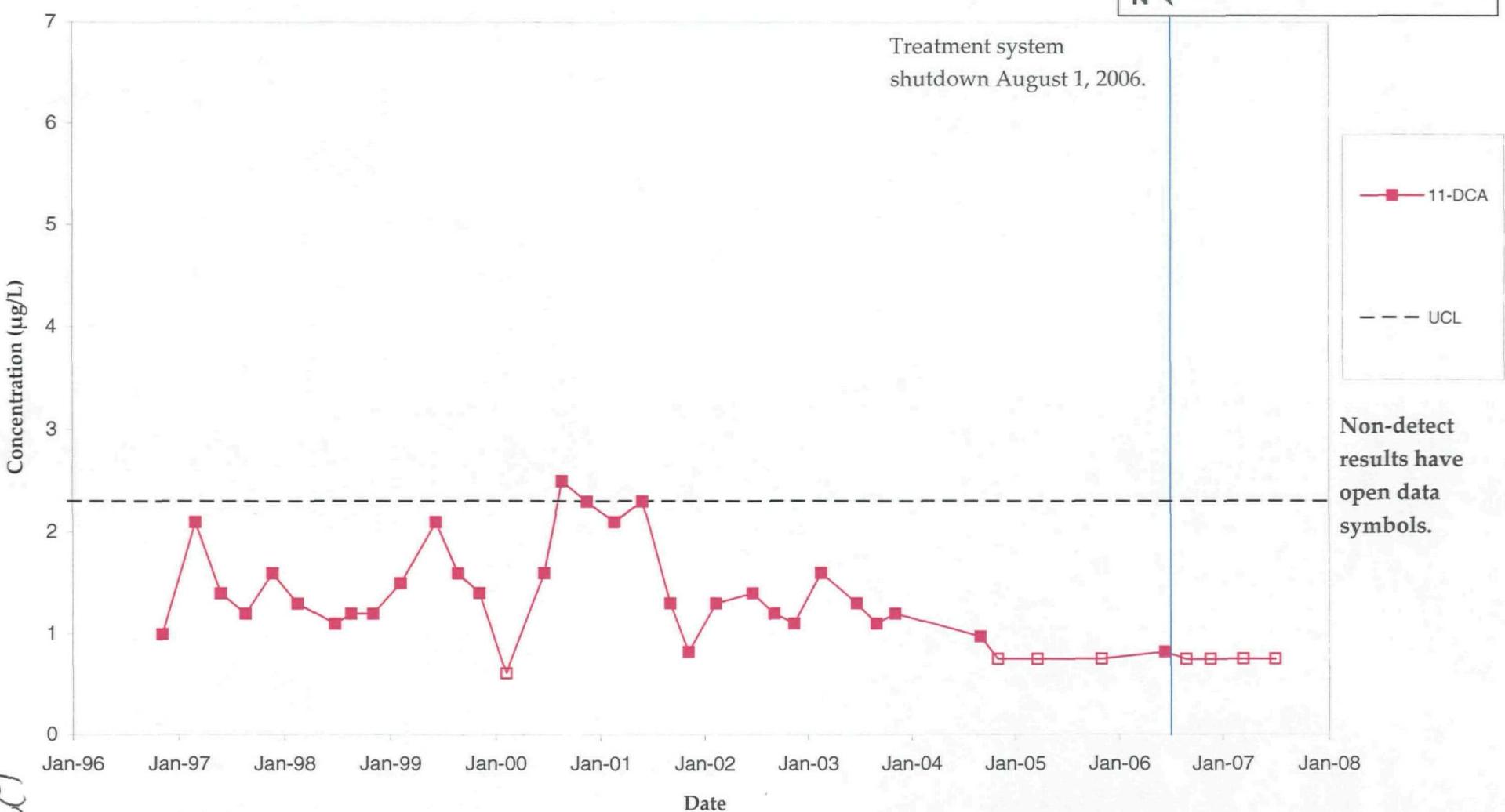
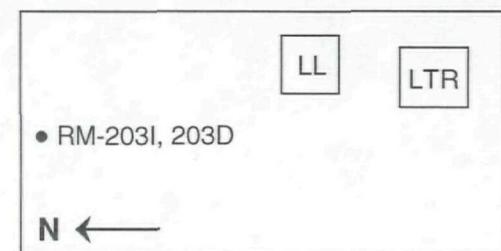
111-TCA

UCL

Non-detect
results have
open data
symbols.



RM-203I
VOC Concentration Trends
Lemberger Landfill



RM-203I

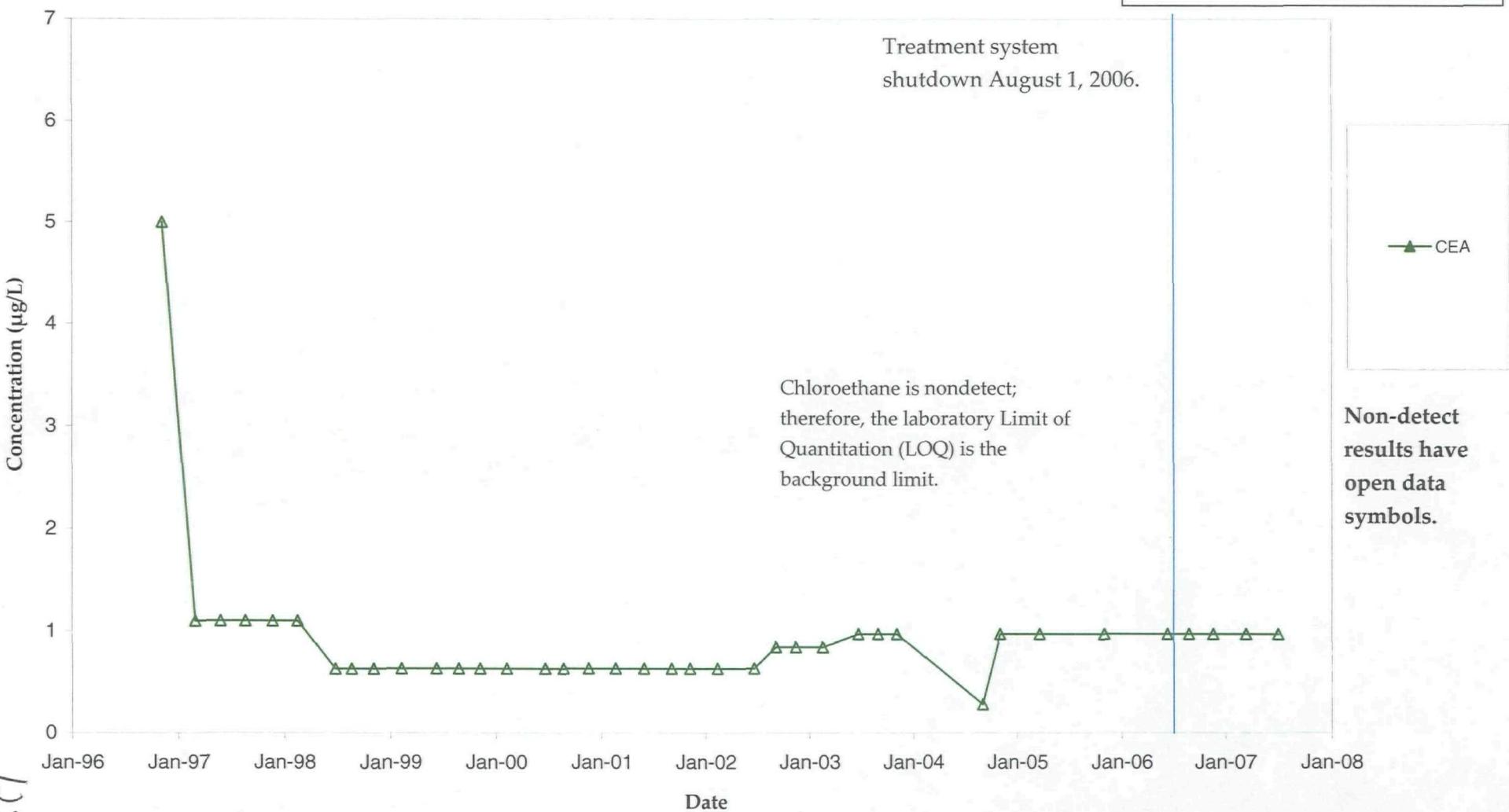
VOC Concentration Trends

Lemberger Landfill

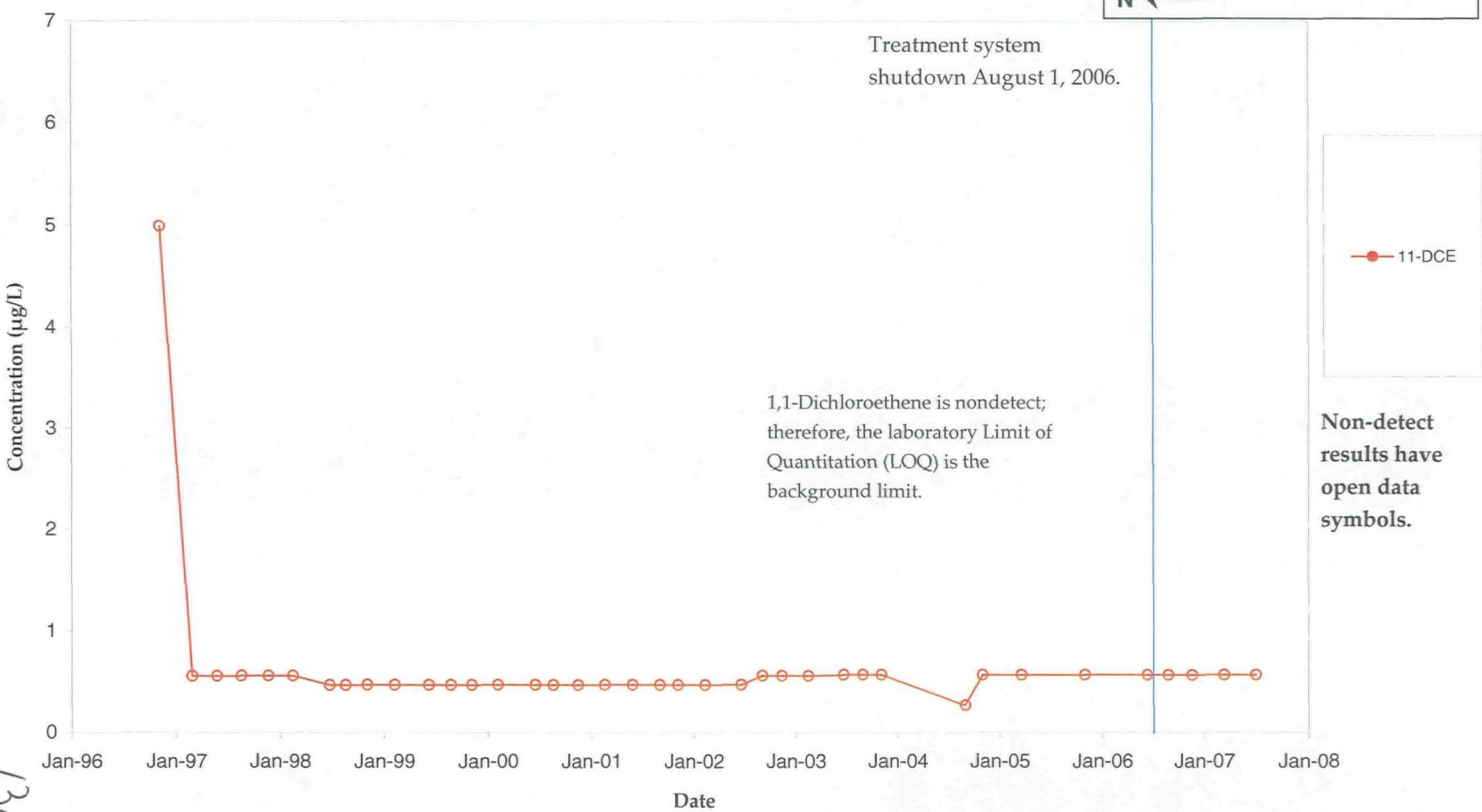
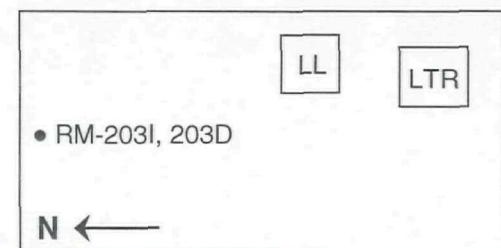
• RM-203I, 203D

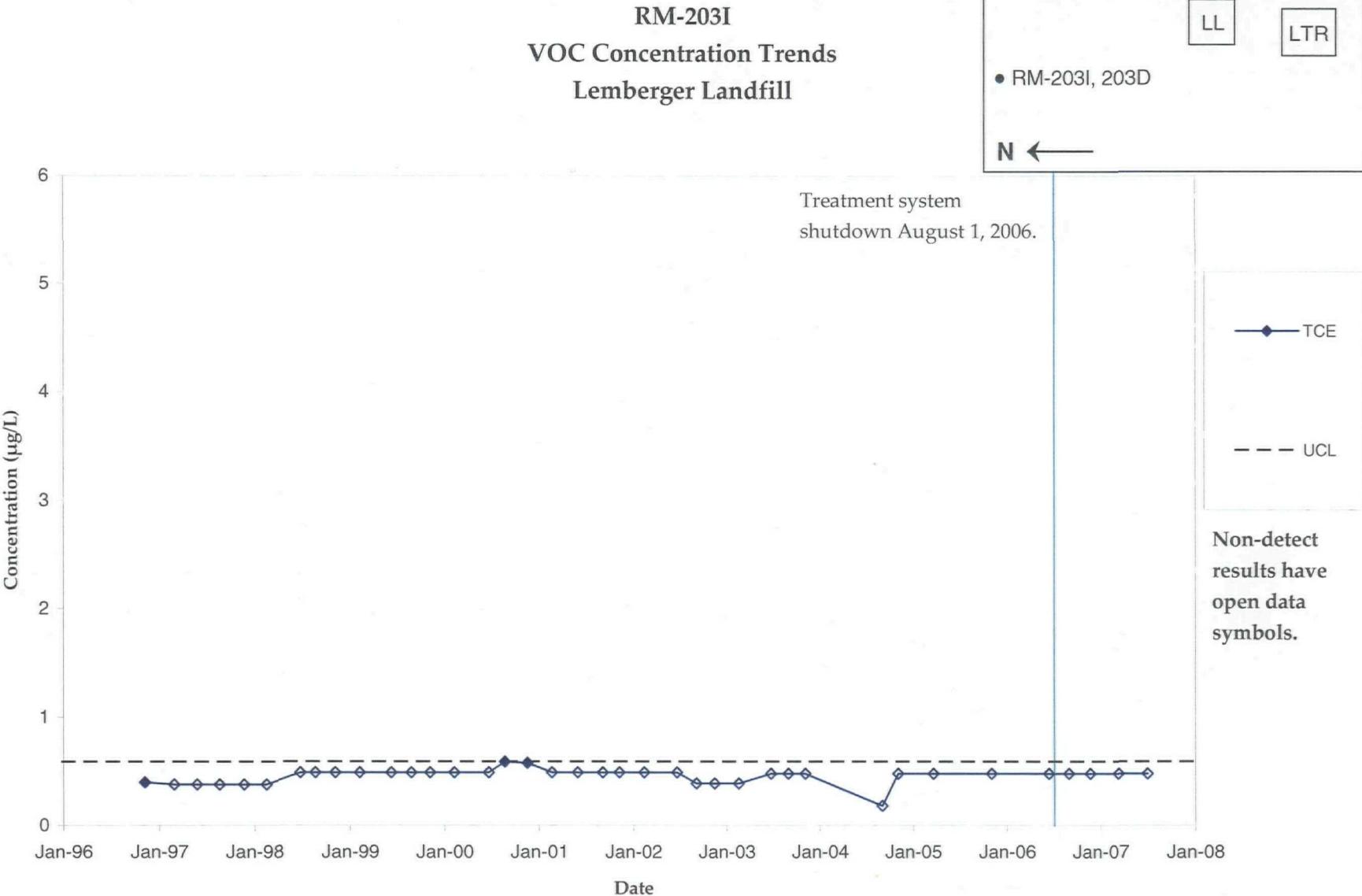
LTR

N ←

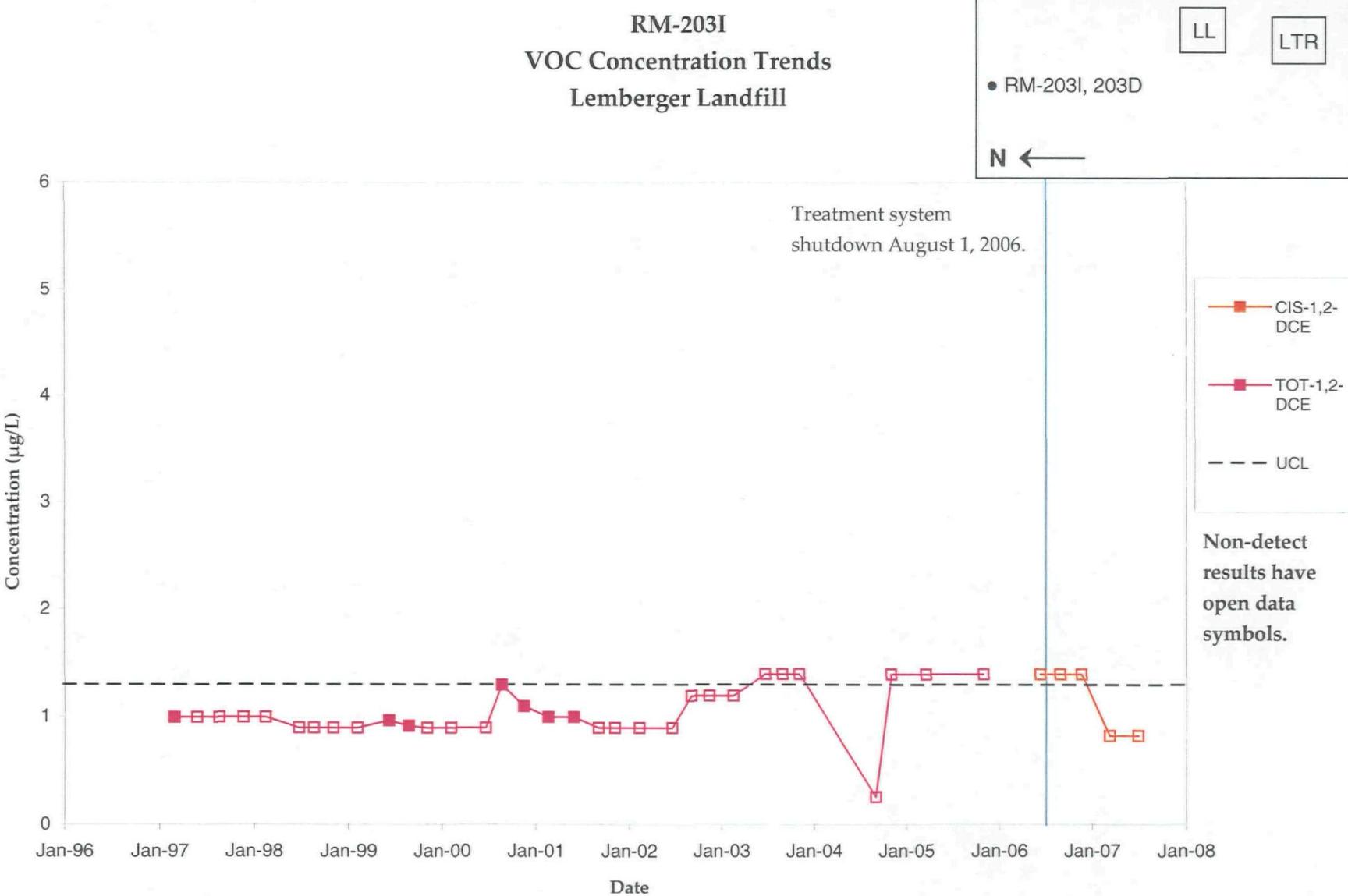


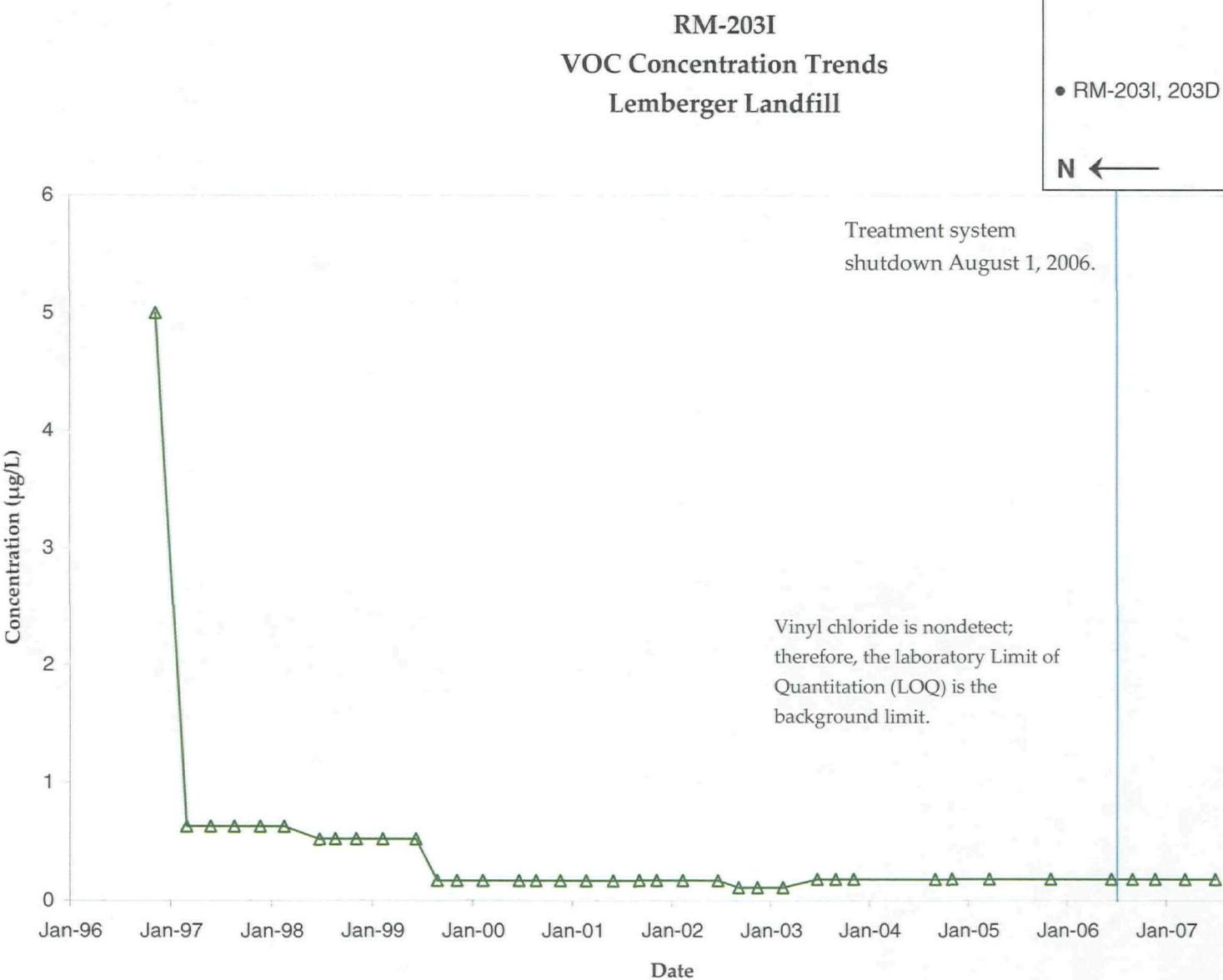
RM-203I
VOC Concentration Trends
Lemberger Landfill





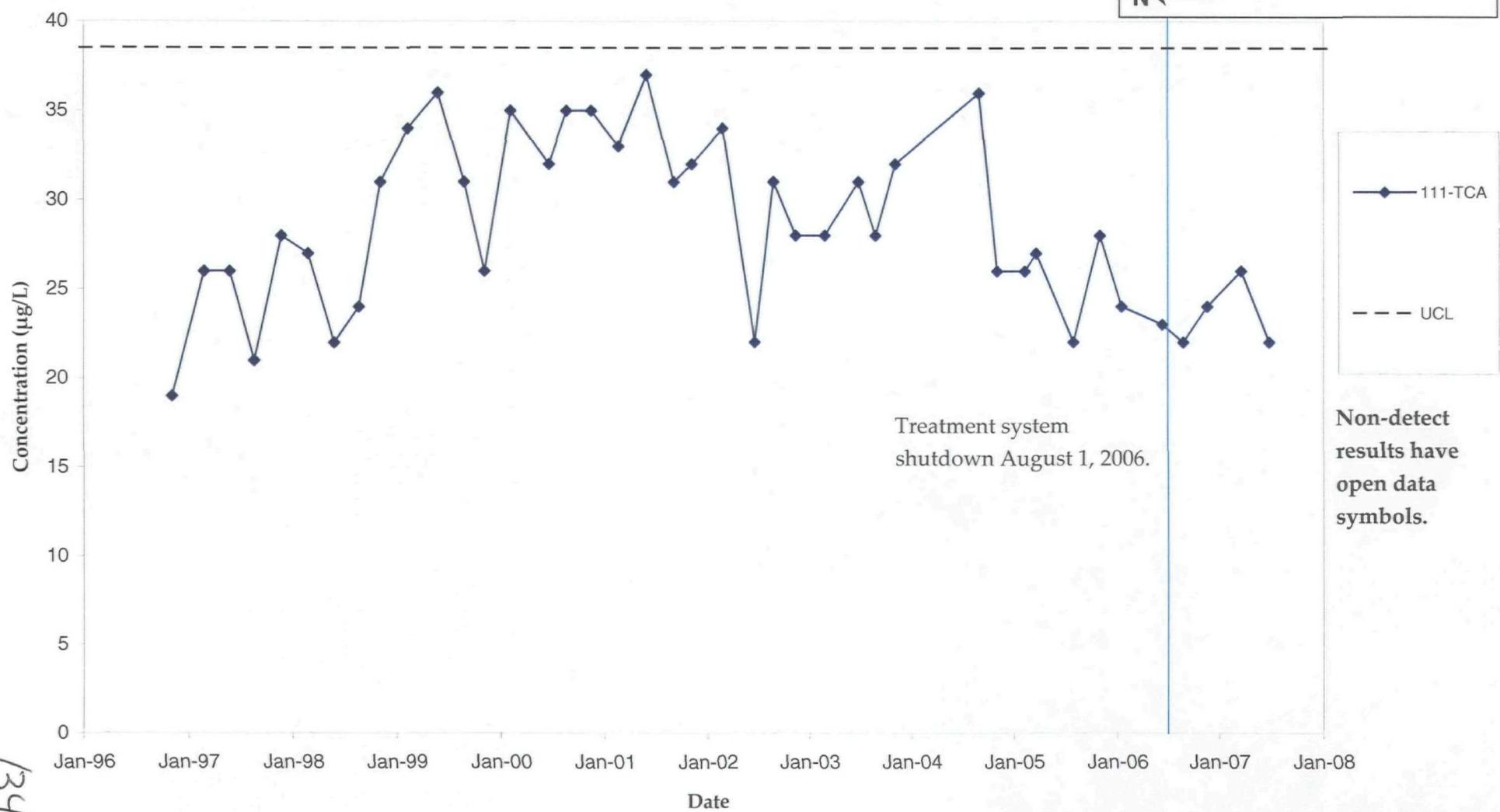
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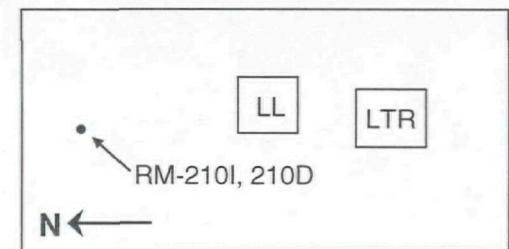


EE/

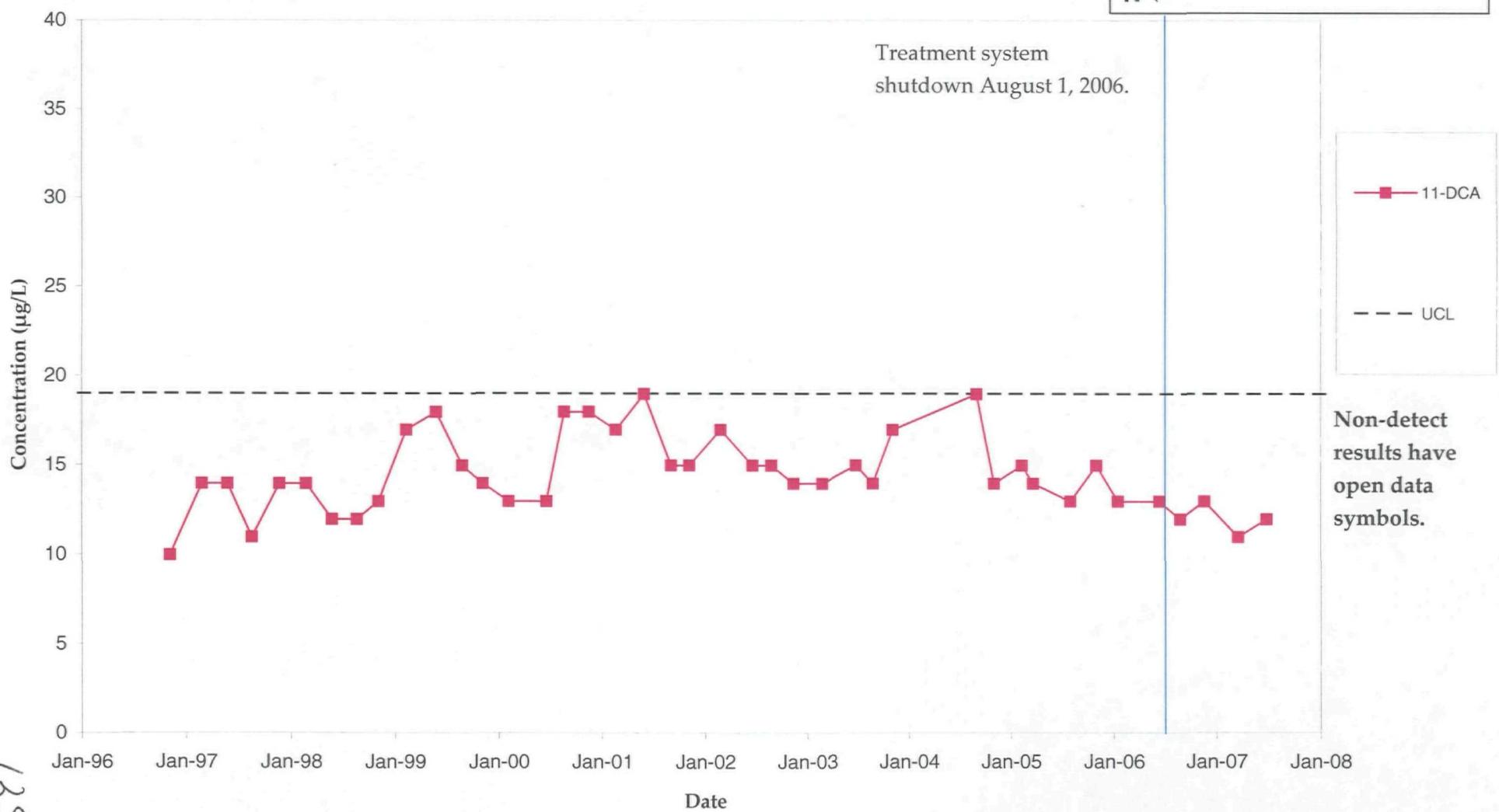
RM-210D
VOC Concentration Trends
Lemberger Landfill



RM-210D
VOC Concentration Trends
Lemberger Landfill

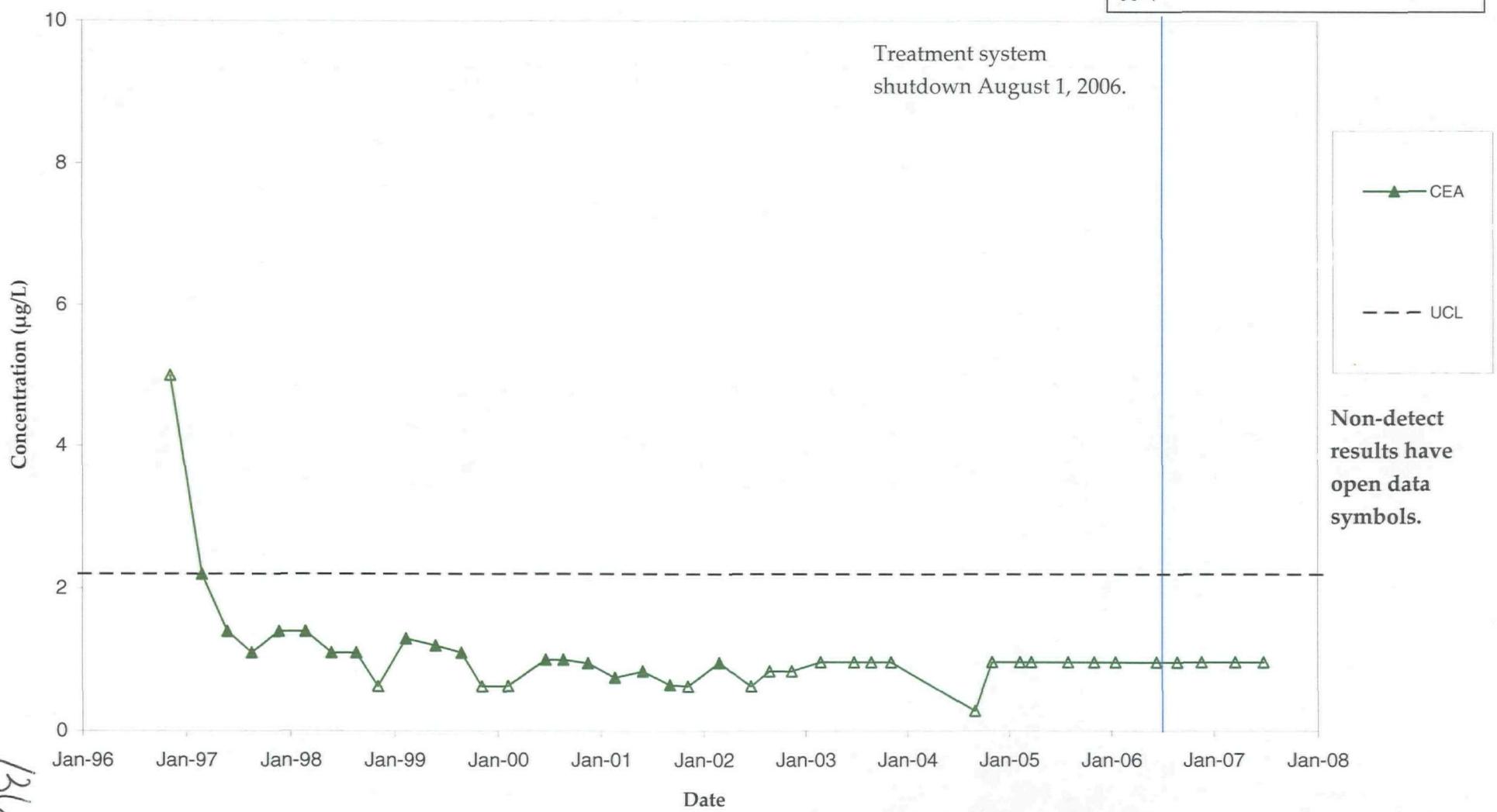
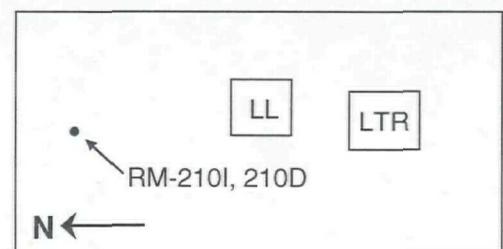


Treatment system
shutdown August 1, 2006.

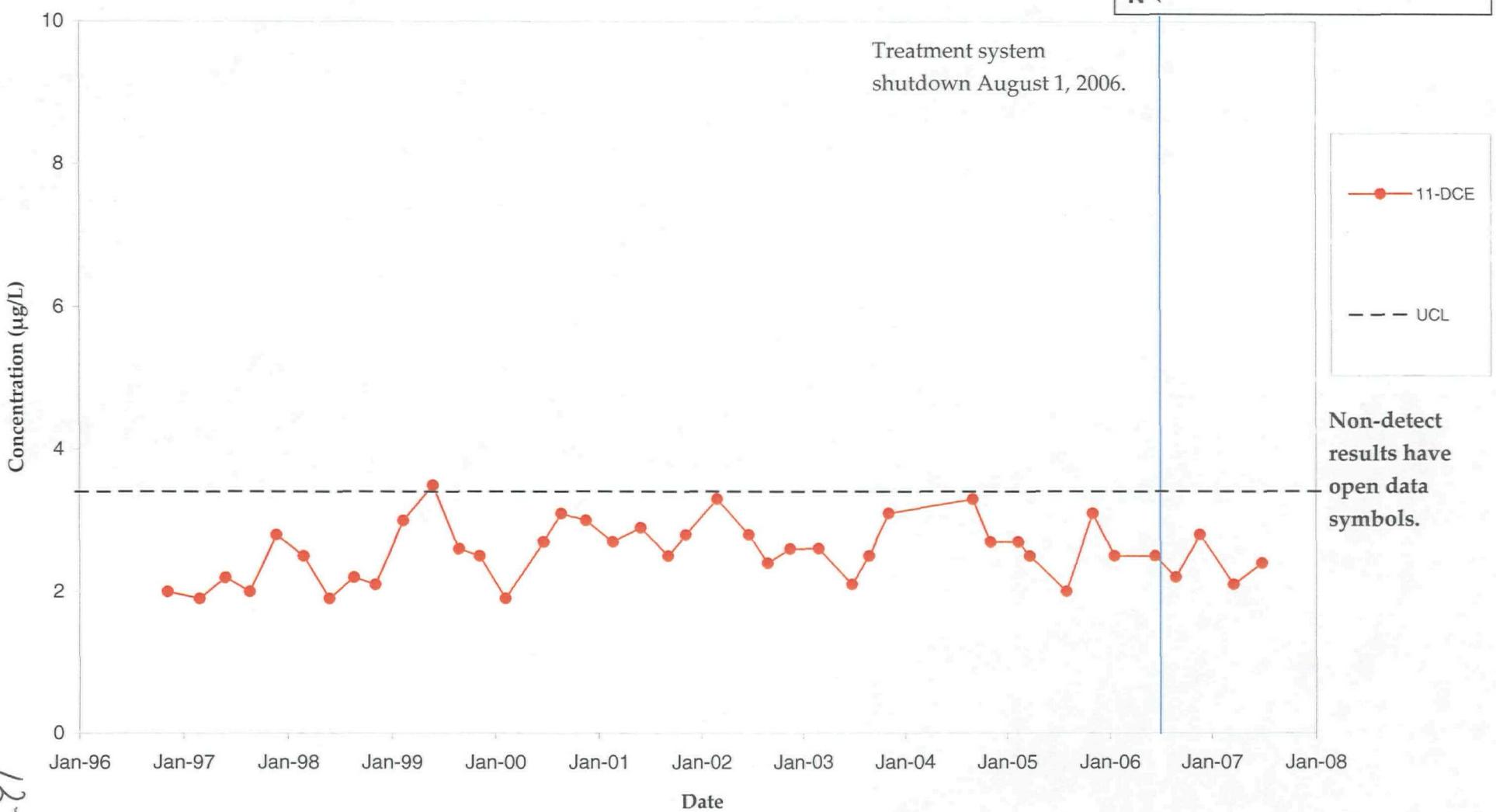
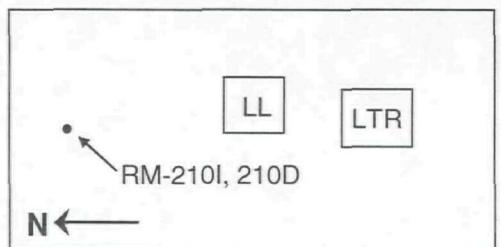


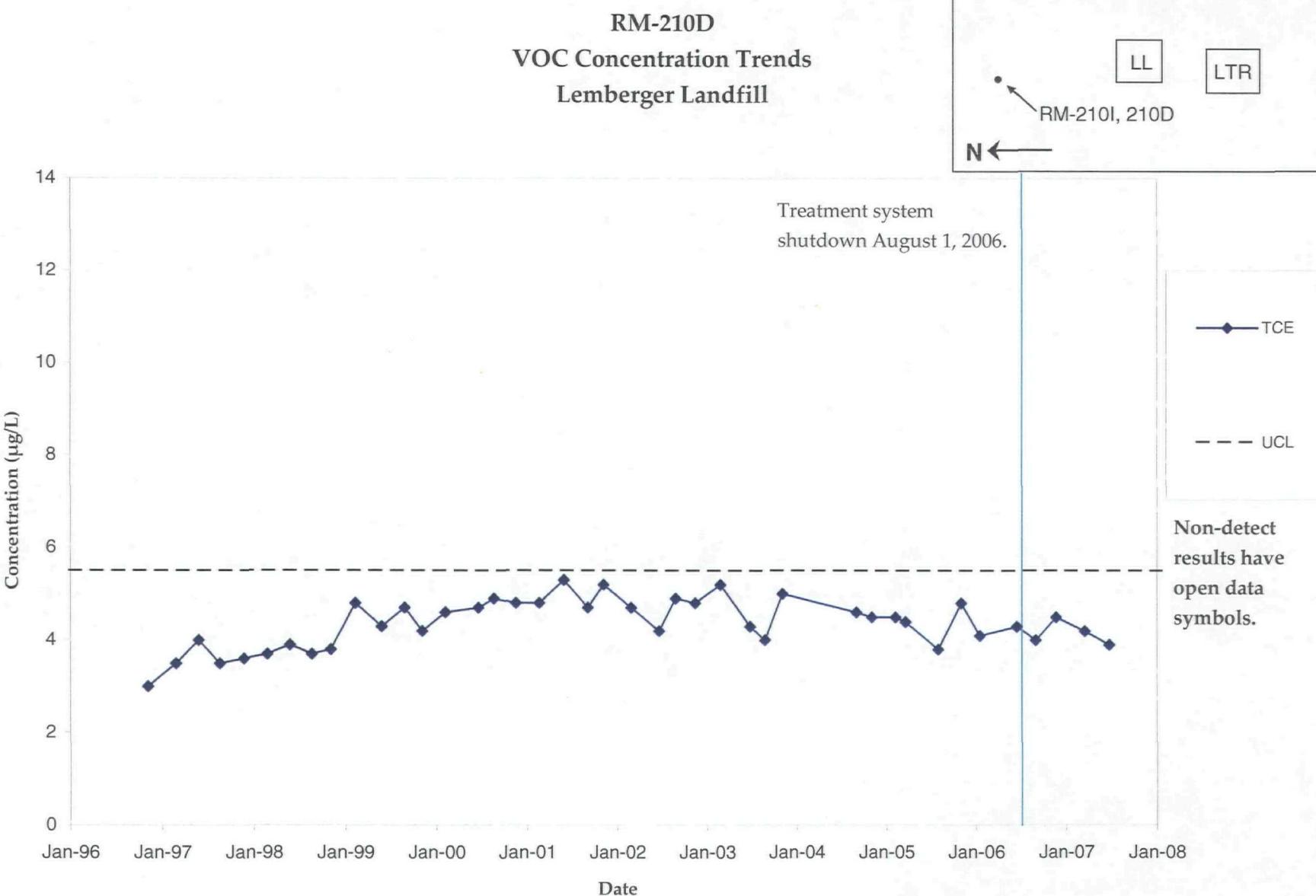
SEI

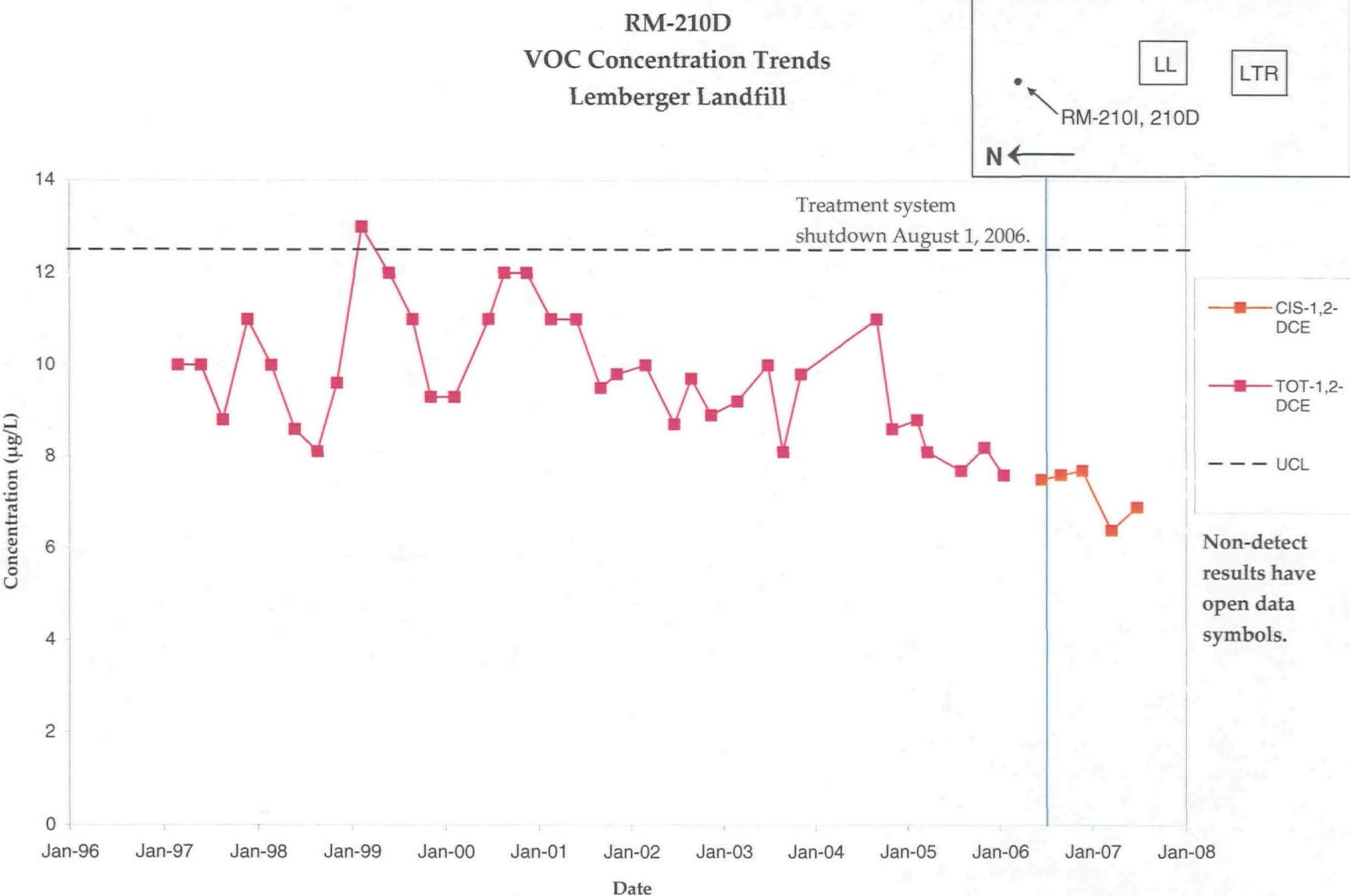
RM-210D
VOC Concentration Trends
Lemberger Landfill



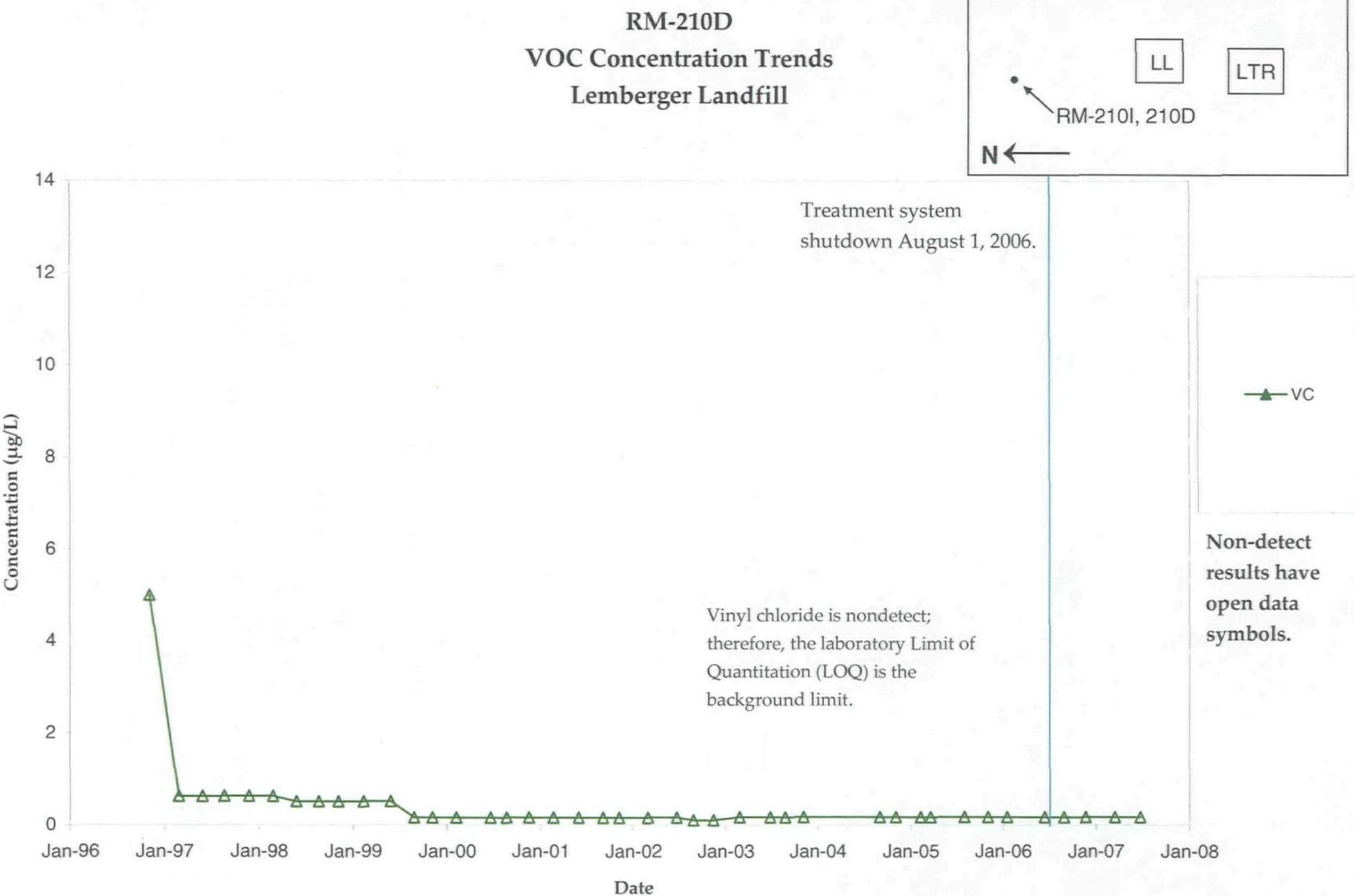
RM-210D
VOC Concentration Trends
Lemberger Landfill



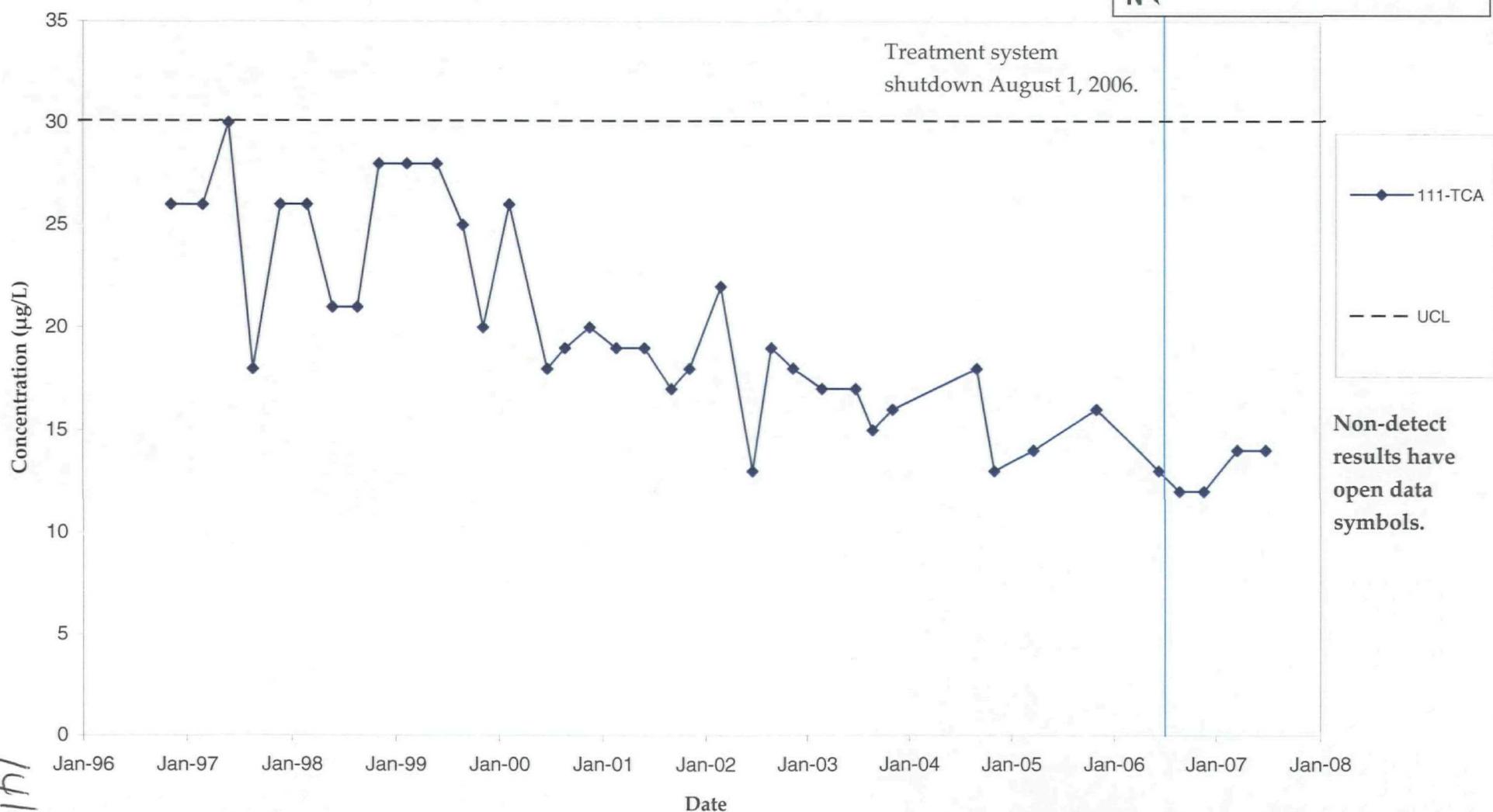
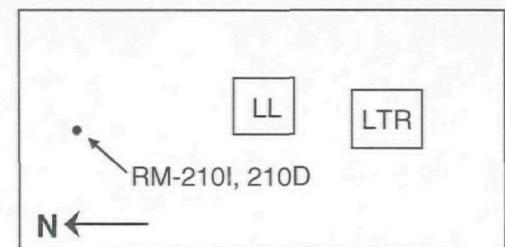




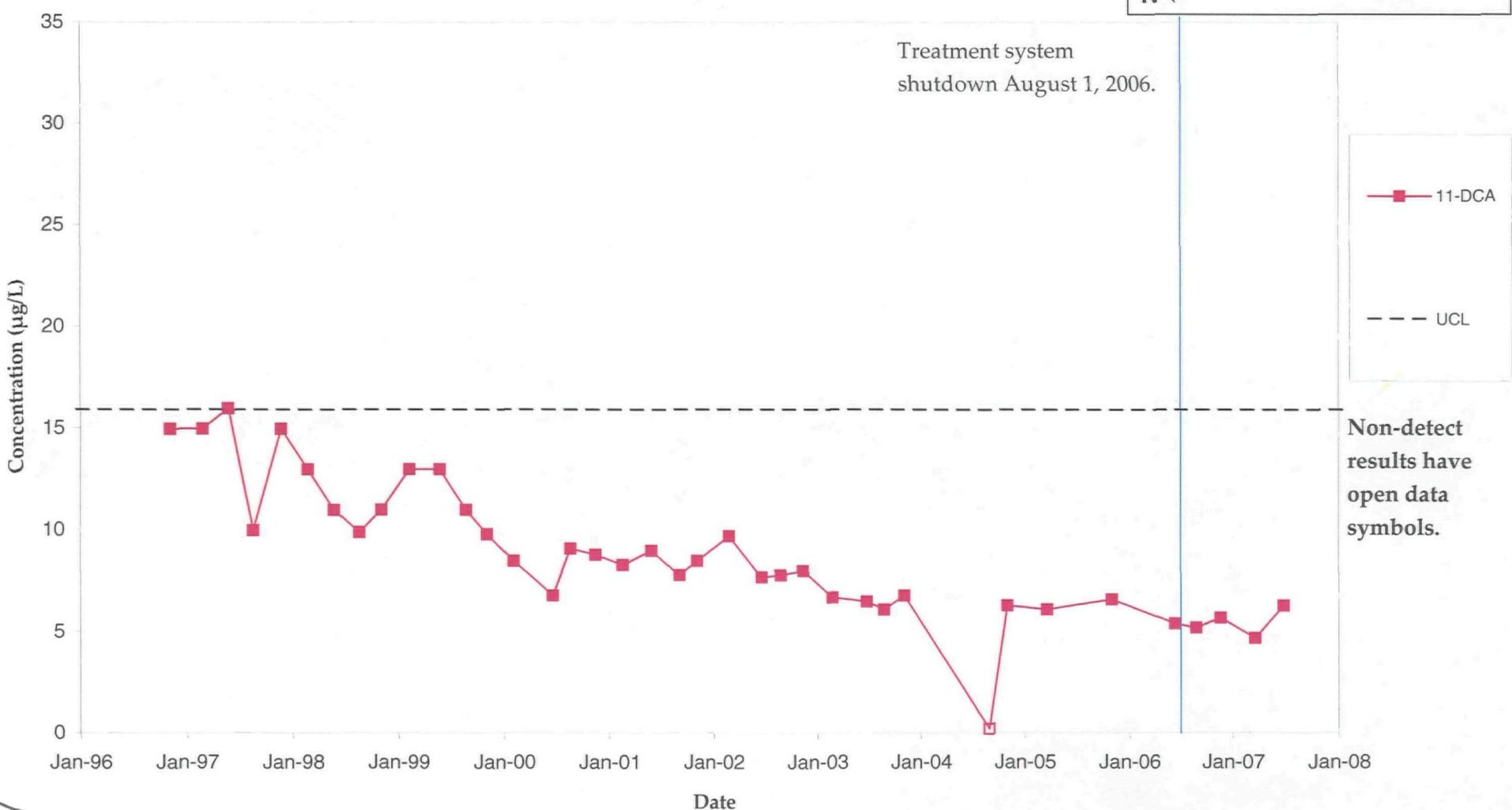
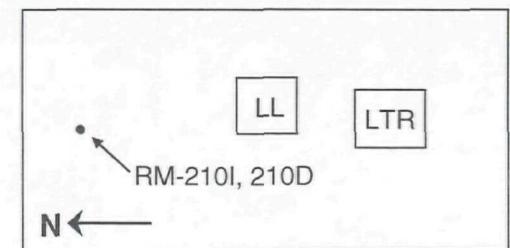
(39)



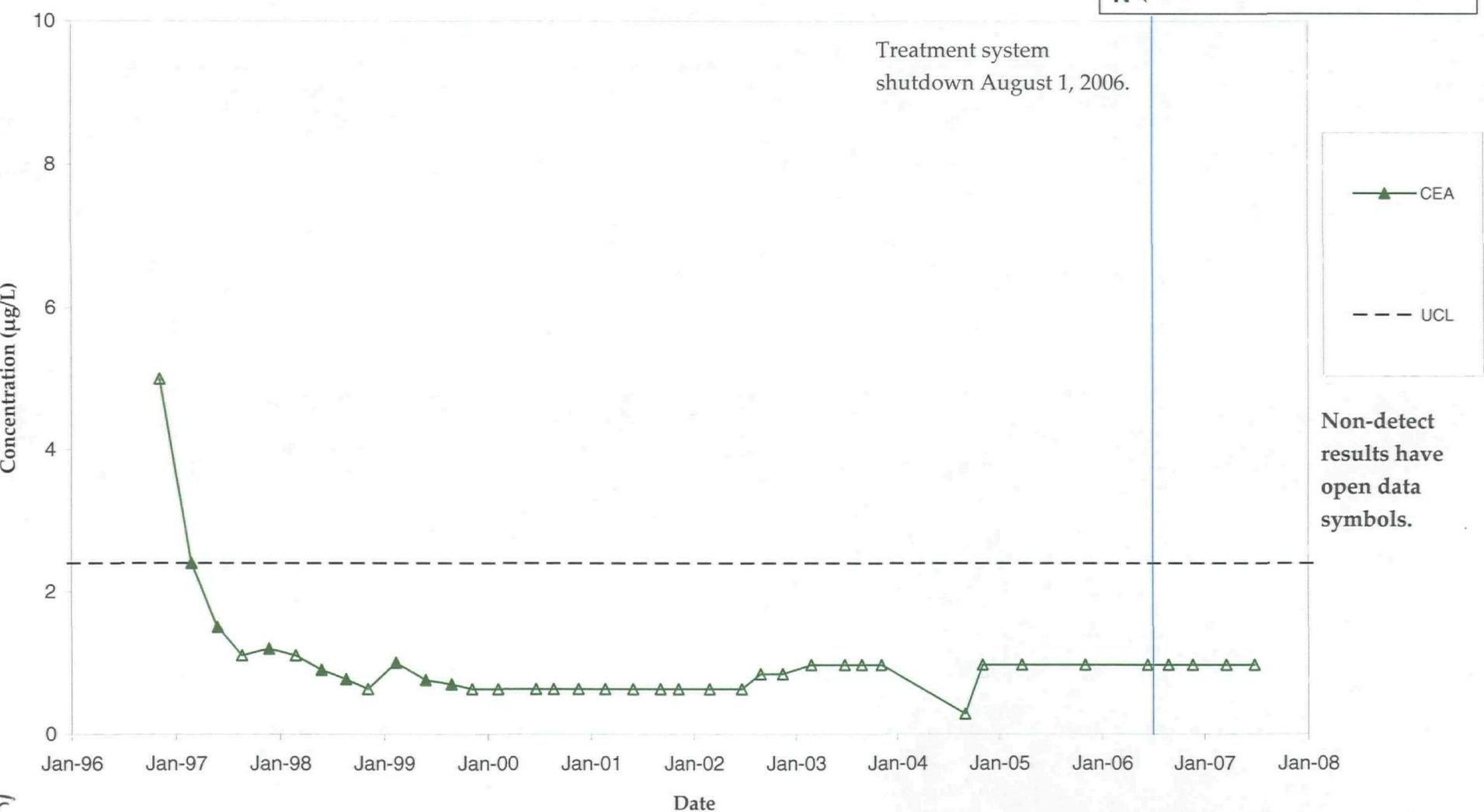
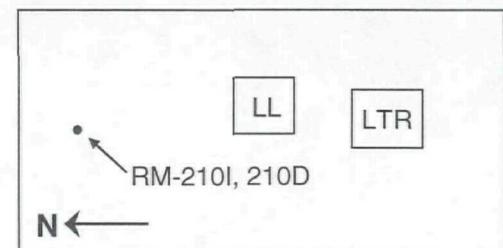
RM-210I
VOC Concentration Trends
Lemberger Landfill



RM-210I
VOC Concentration Trends
Lemberger Landfill

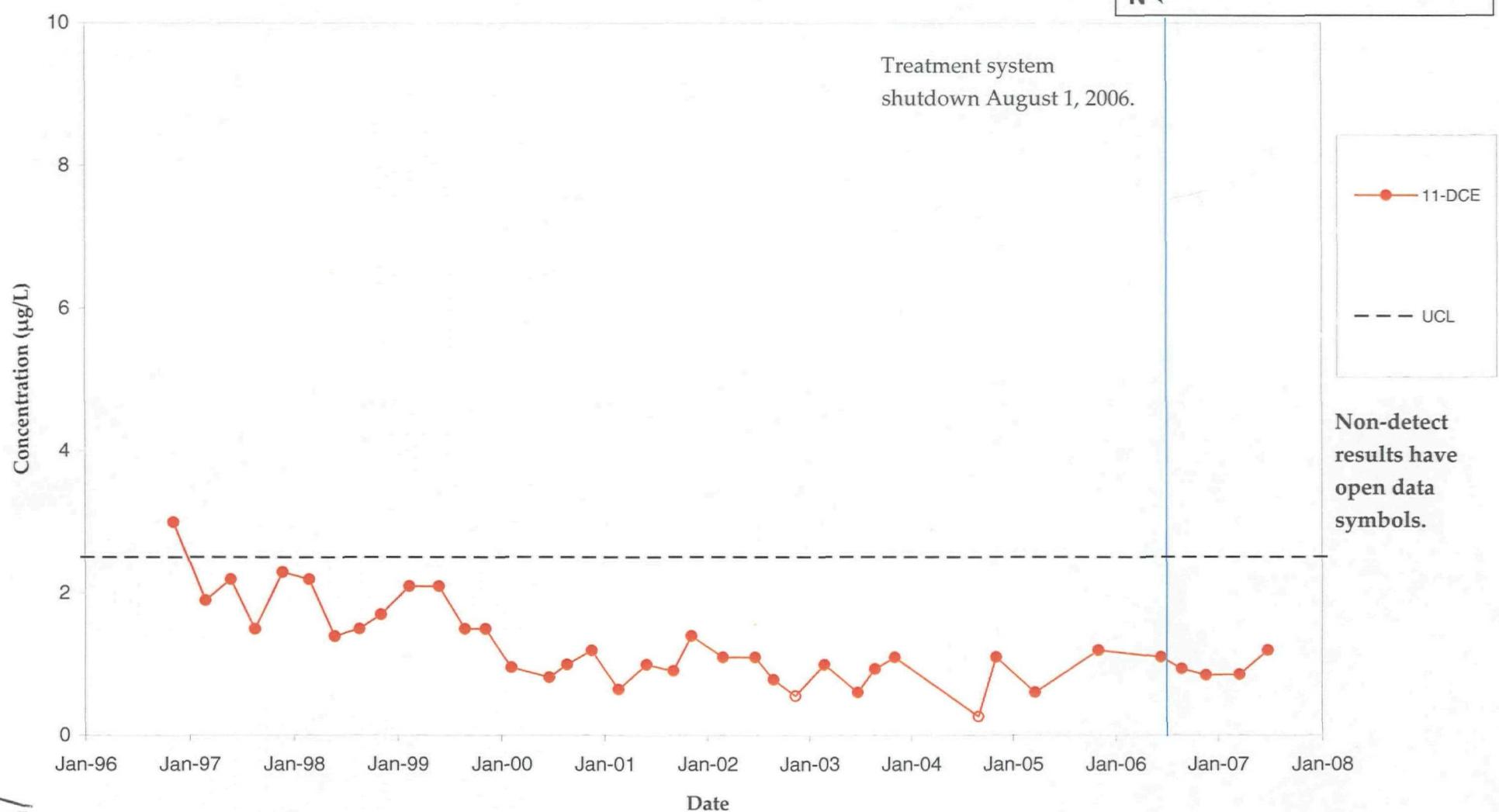


RM-210I
VOC Concentration Trends
Lemberger Landfill



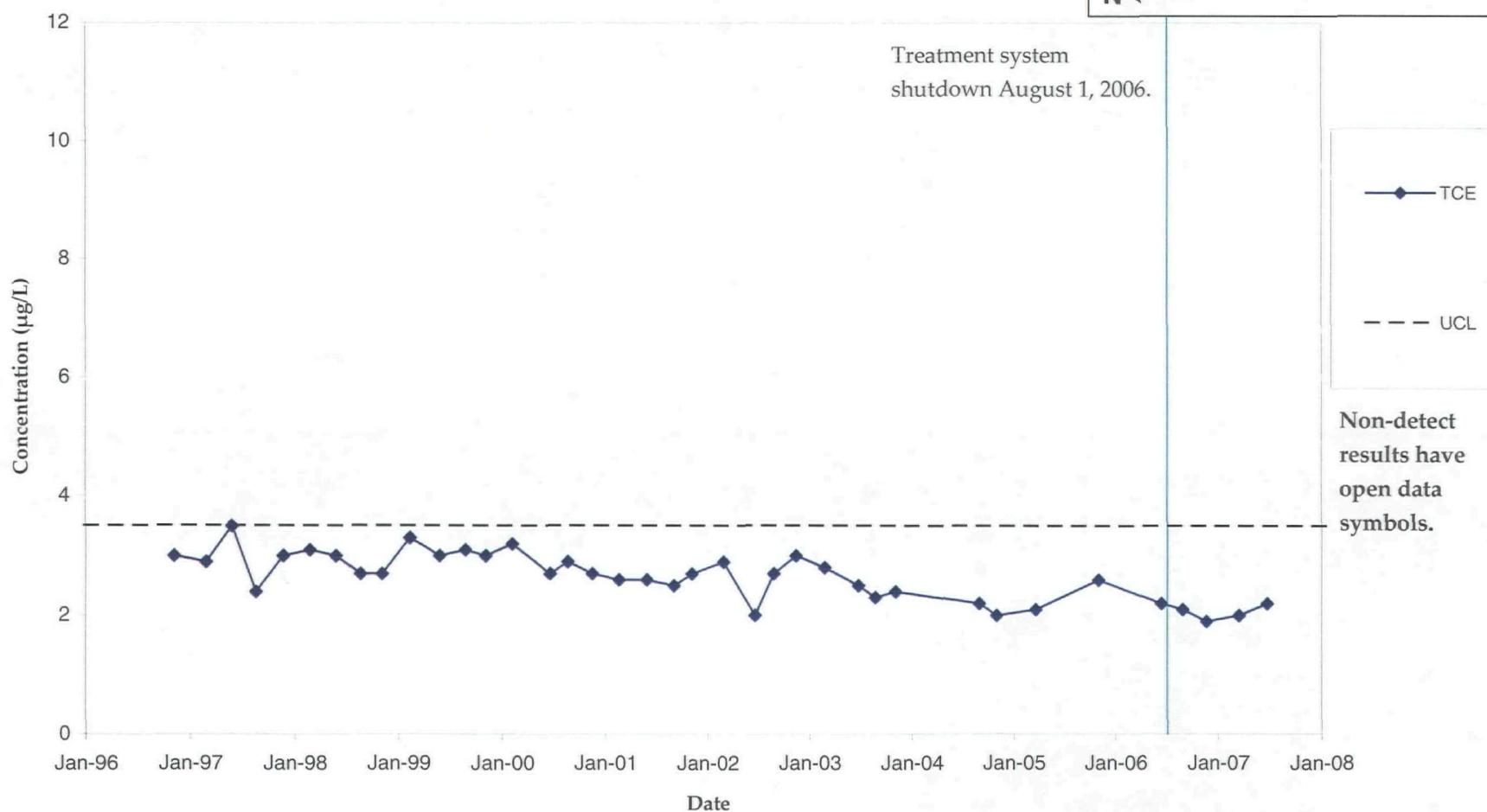
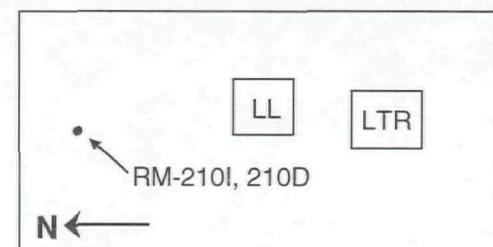
ERH

RM-210I VOC Concentration Trends Lemberger Landfill

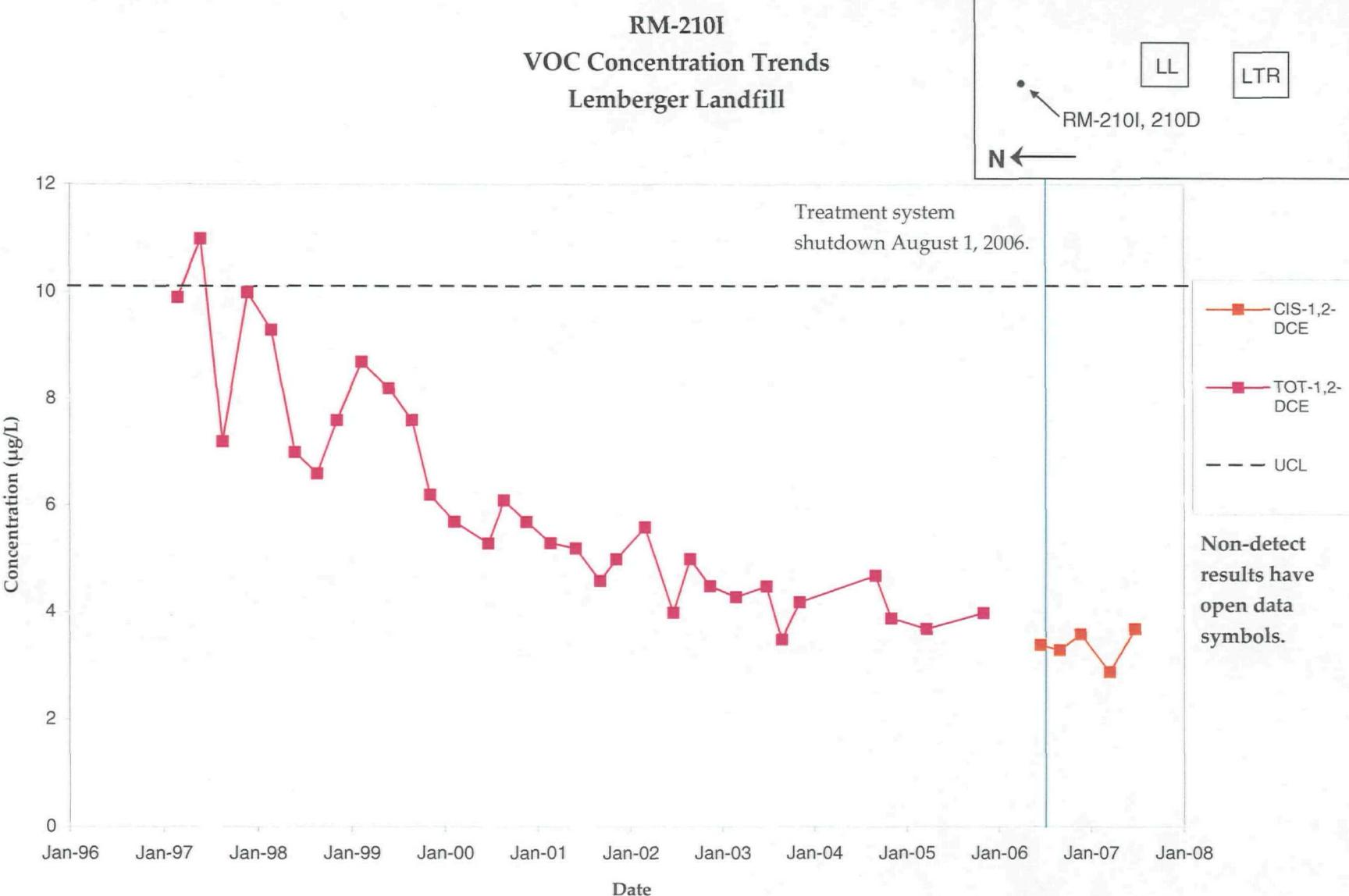


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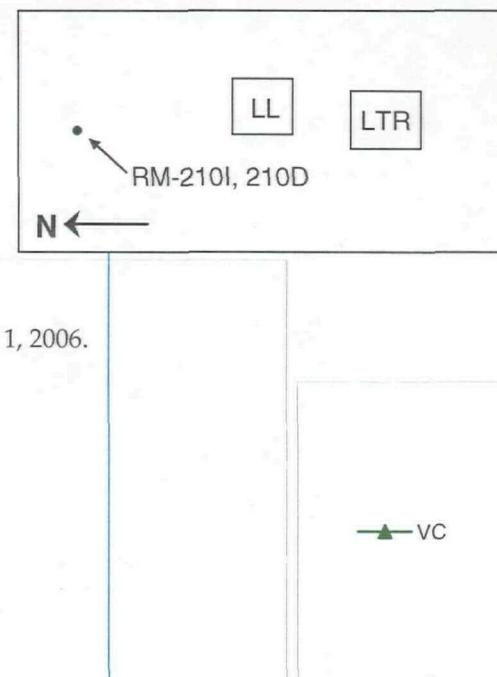
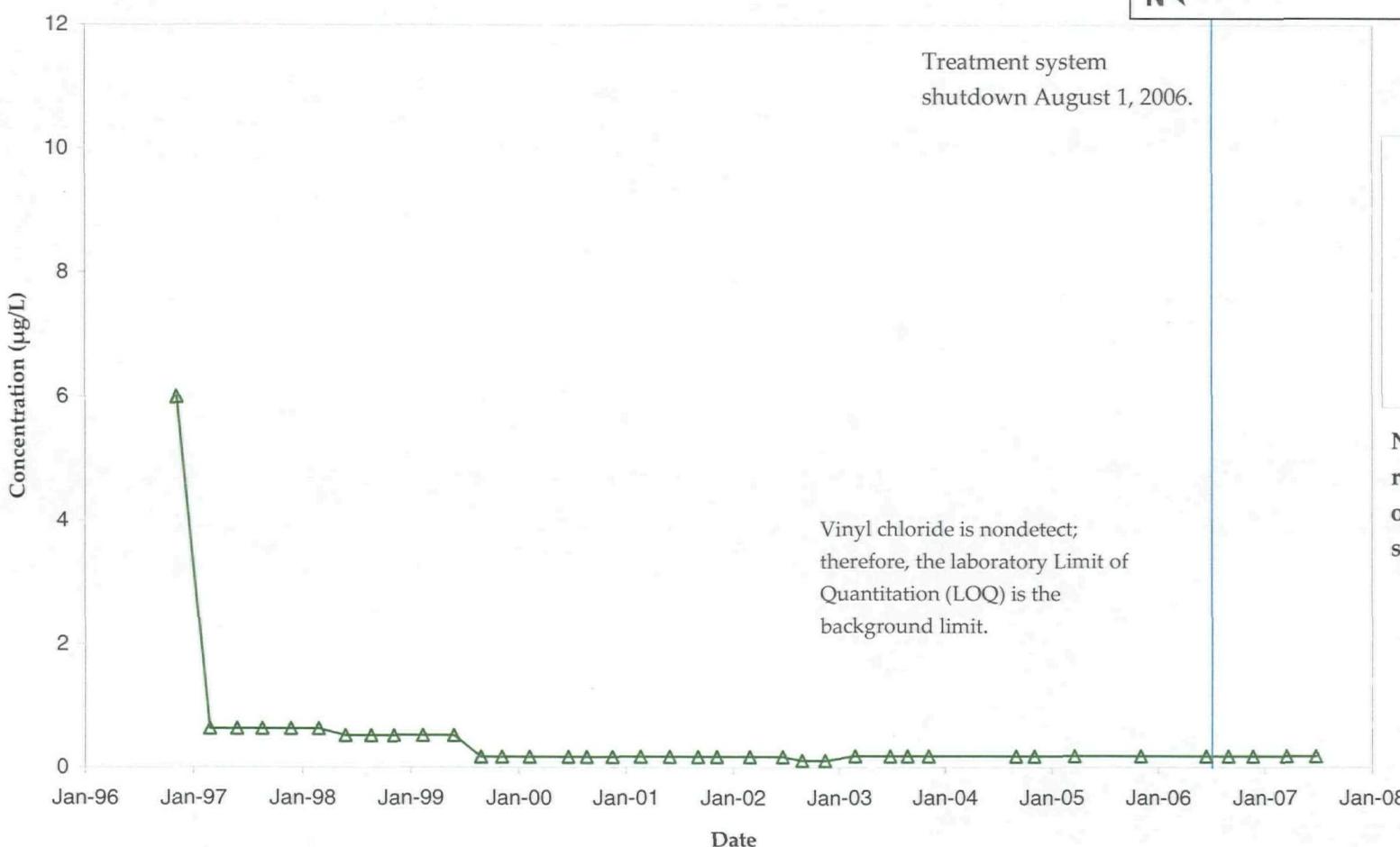
RM-210I
VOC Concentration Trends
Lemberger Landfill



Sh/

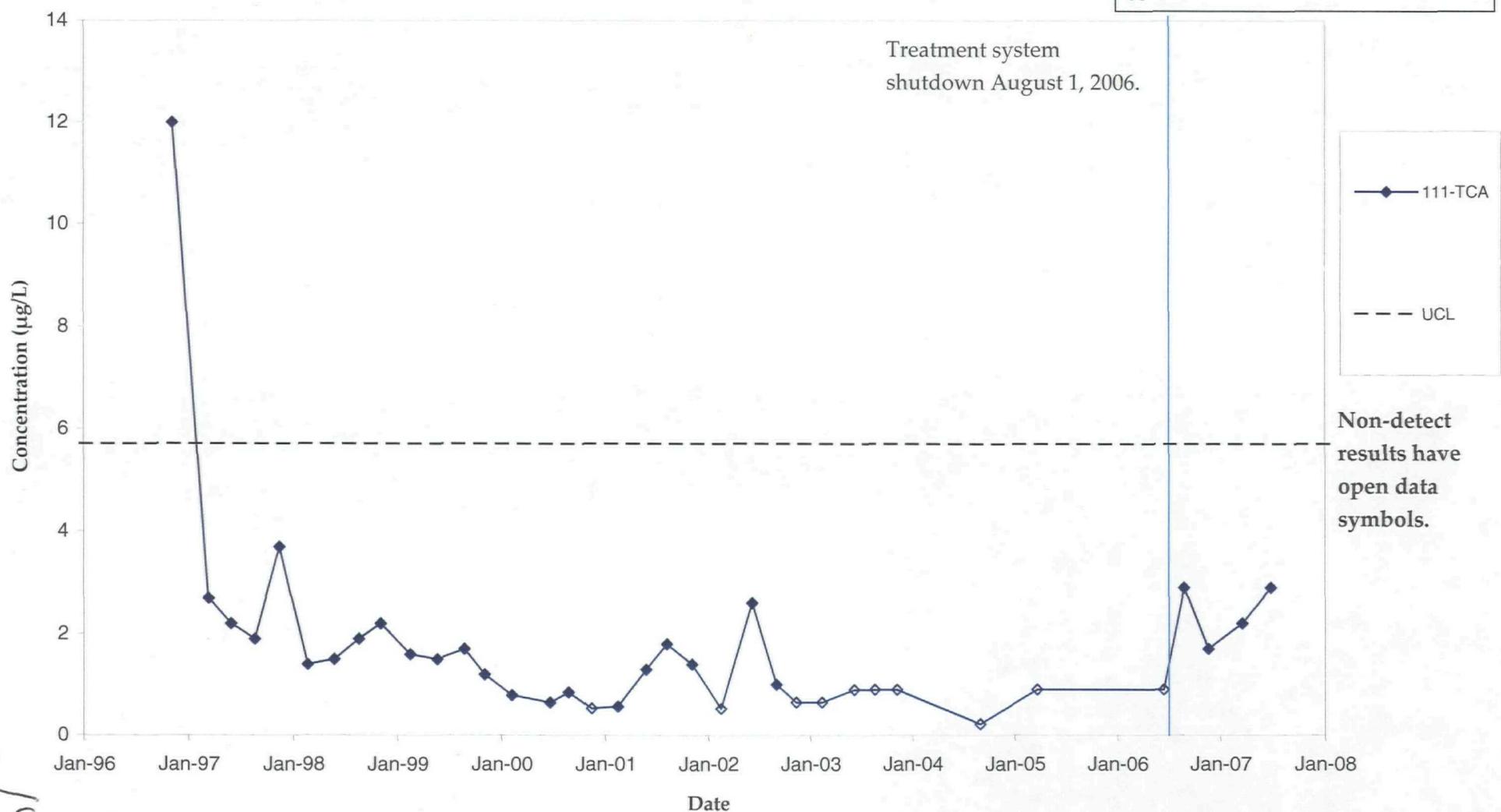
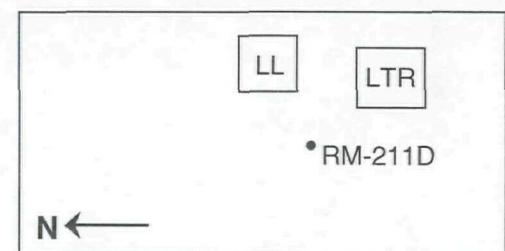


RM-210I
VOC Concentration Trends
Lemberger Landfill



Non-detect results have open data symbols.

RM-211D
VOC Concentration Trends
Lemberger Landfill



RM-211D
VOC Concentration Trends
Lemberger Landfill

LL LTR

• RM-211D

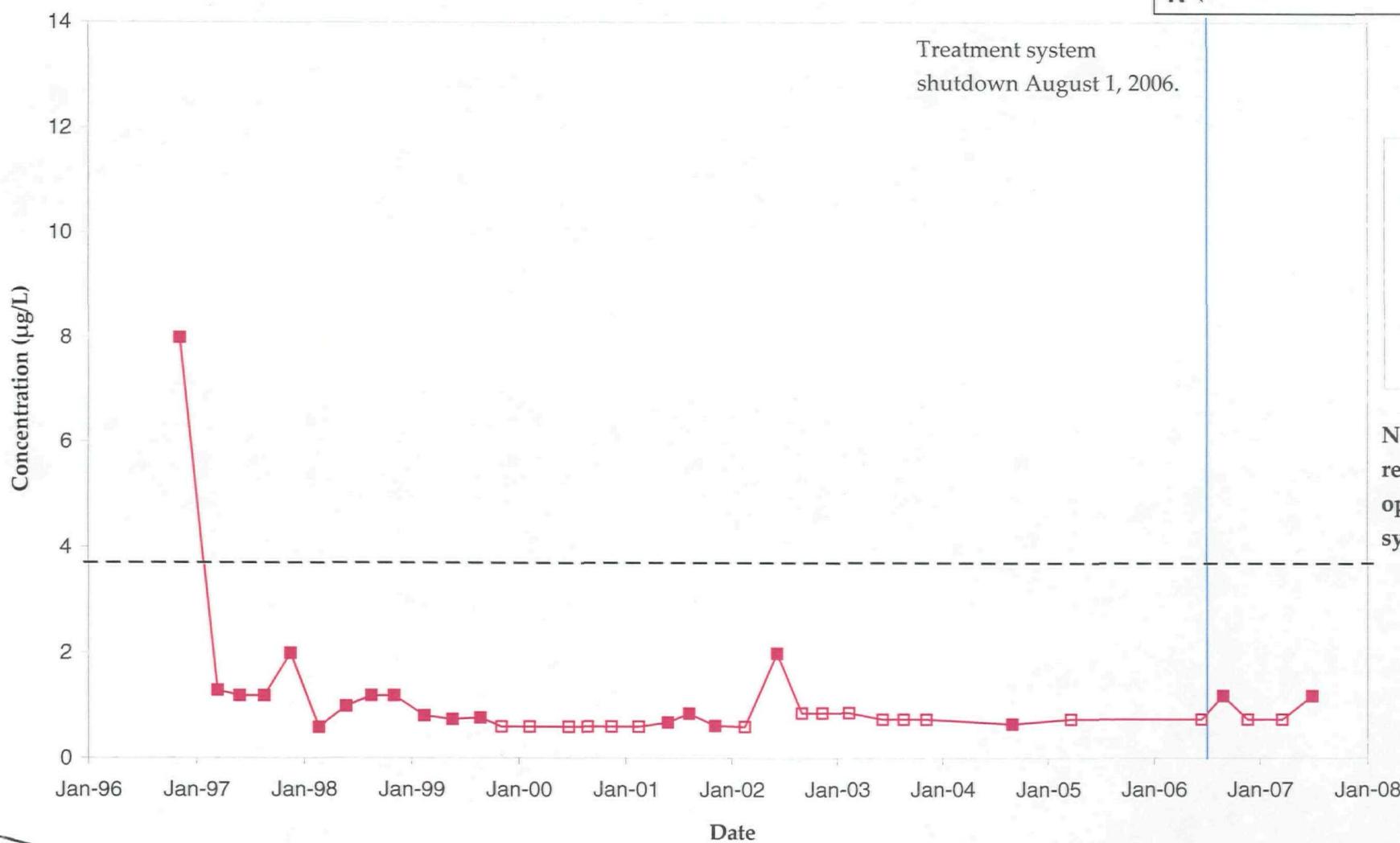
N ←

Treatment system
shutdown August 1, 2006.

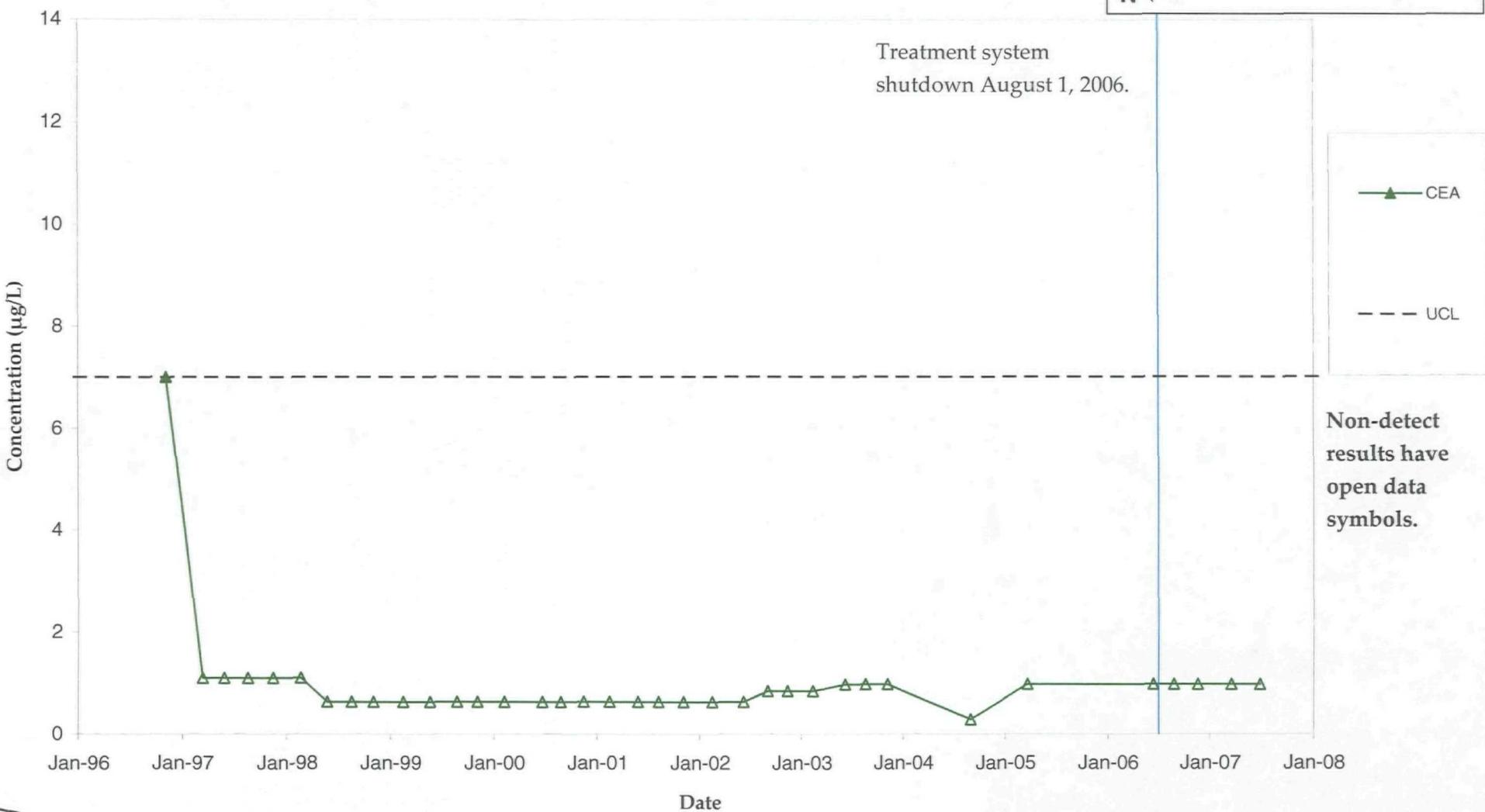
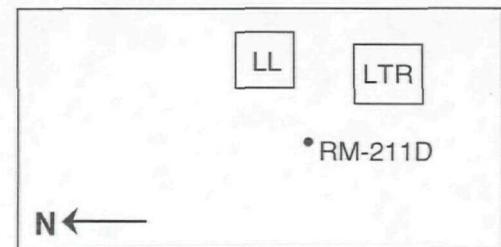
— 11-DCA

- - - UCL

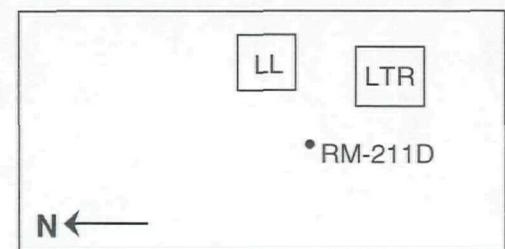
Non-detect
results have
open data
symbols.



RM-211D
VOC Concentration Trends
Lemberger Landfill

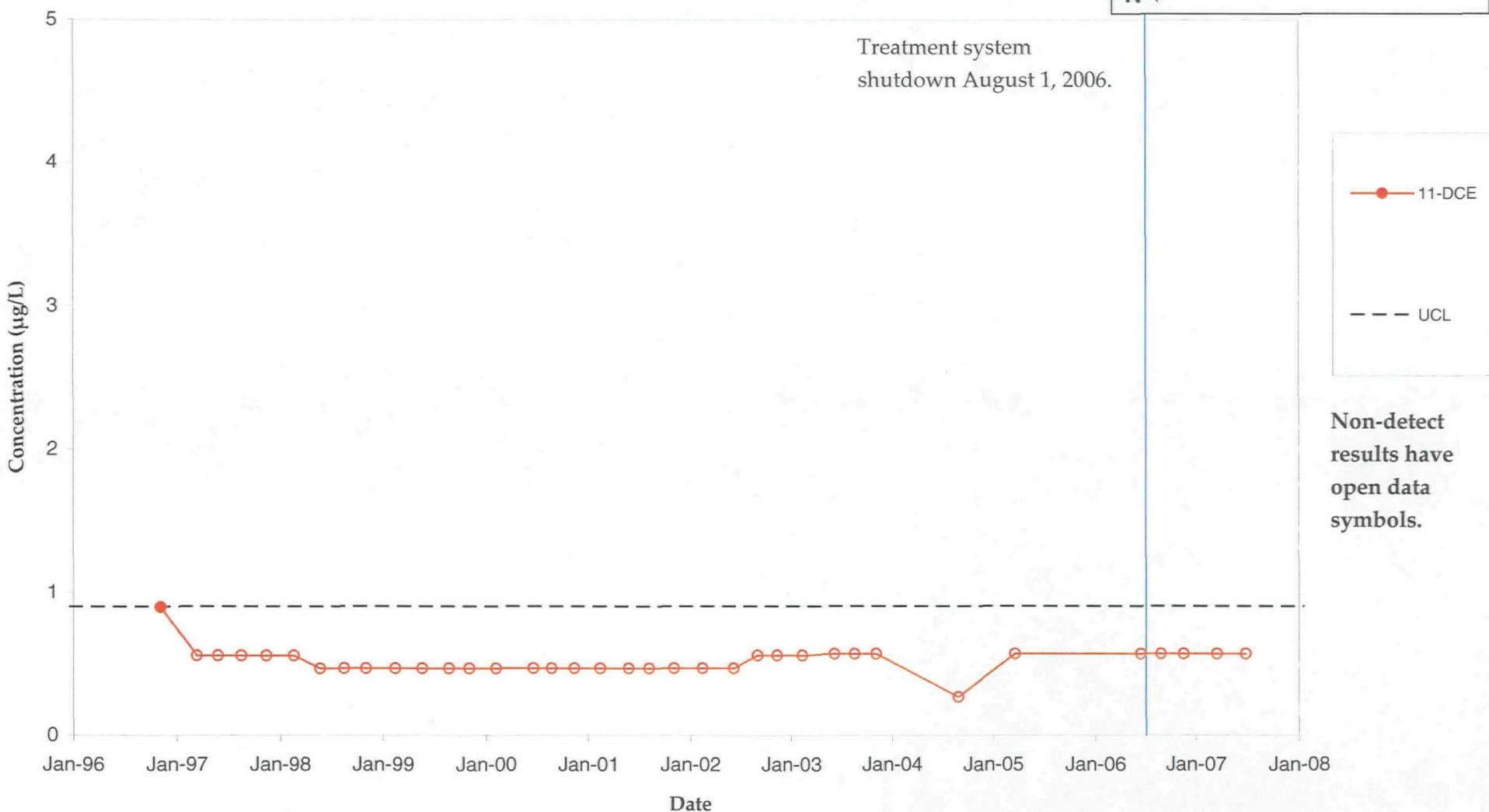


RM-211D
VOC Concentration Trends
Lemberger Landfill



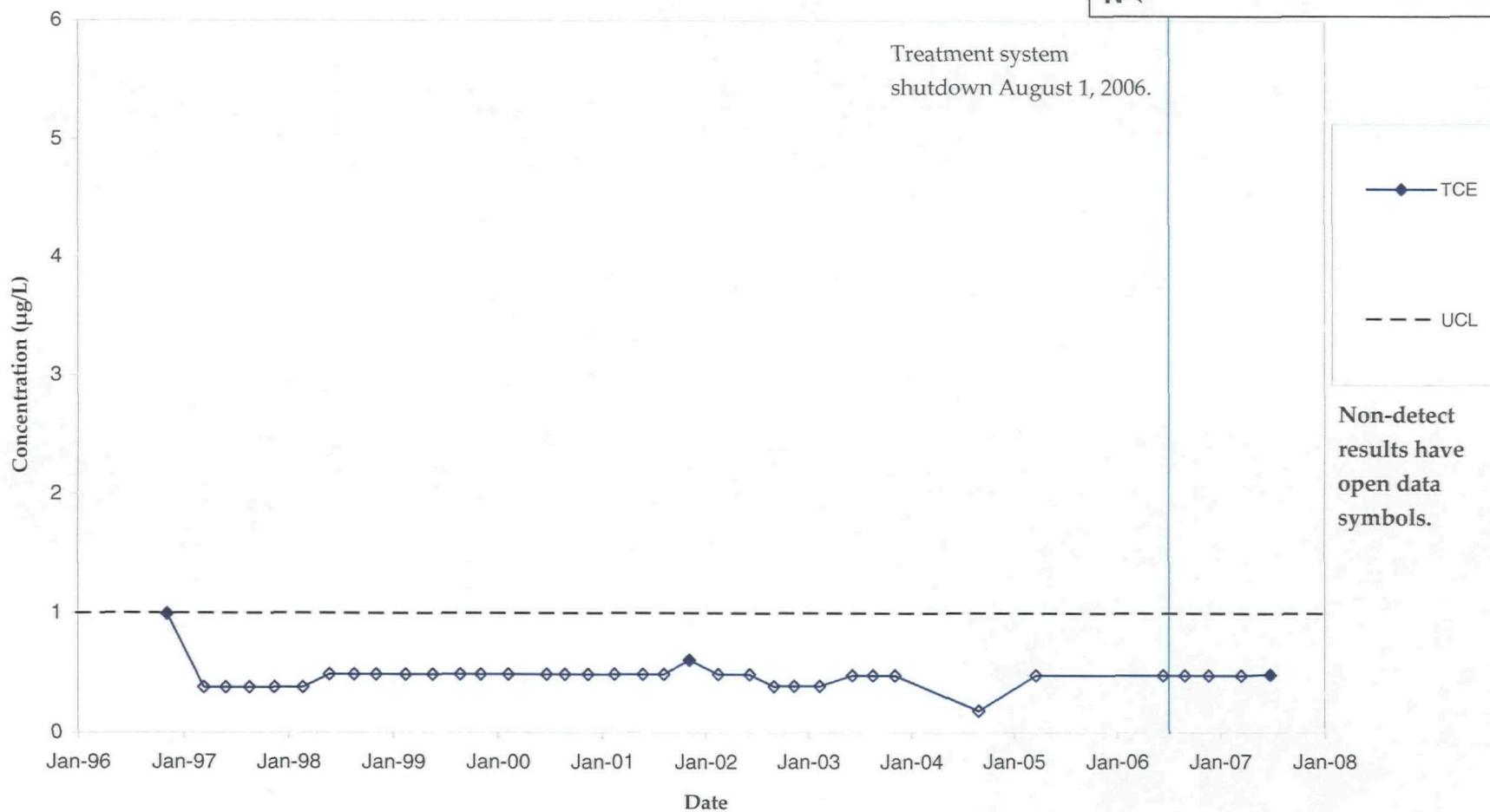
N ←

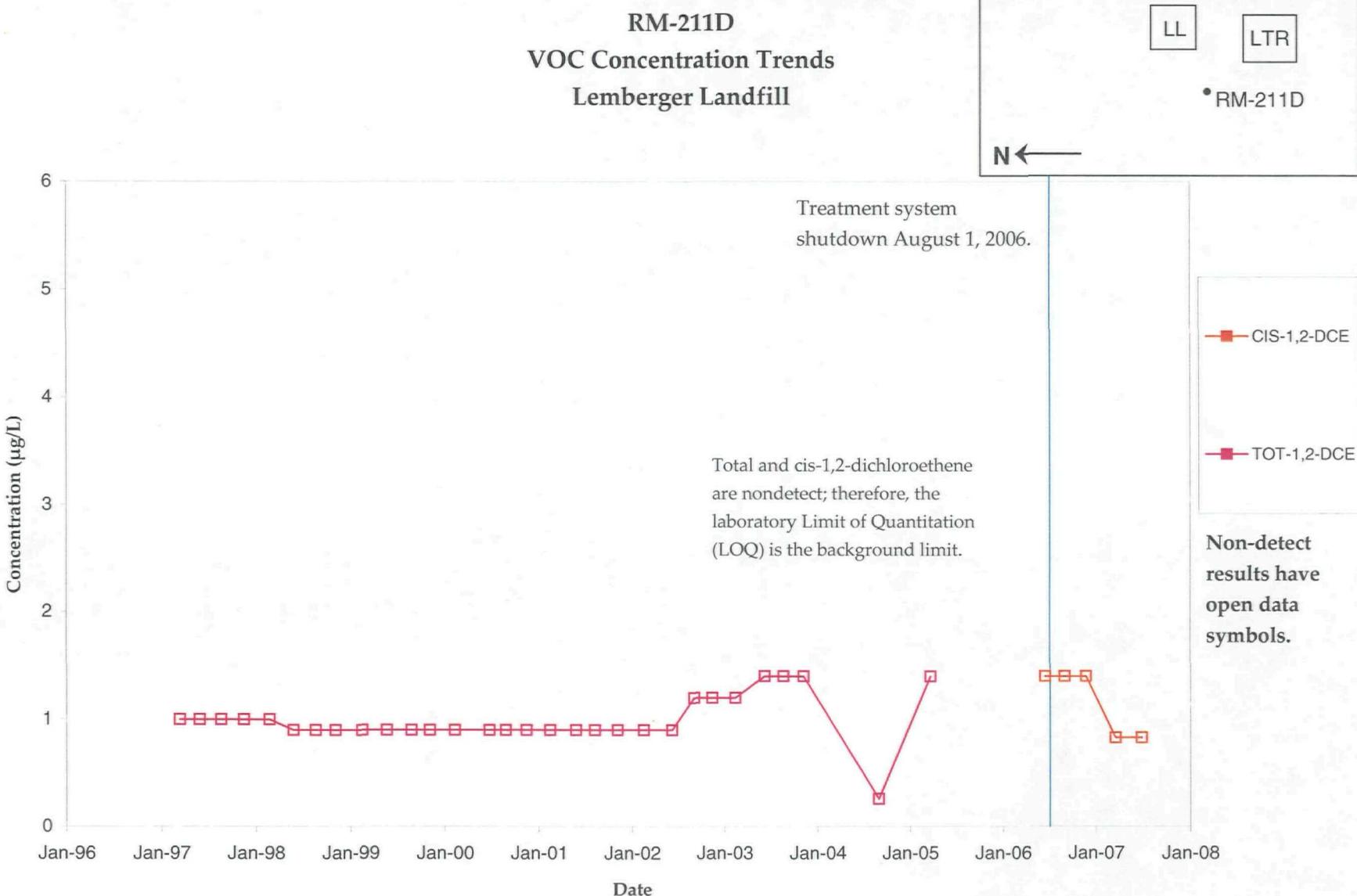
Treatment system
shutdown August 1, 2006.



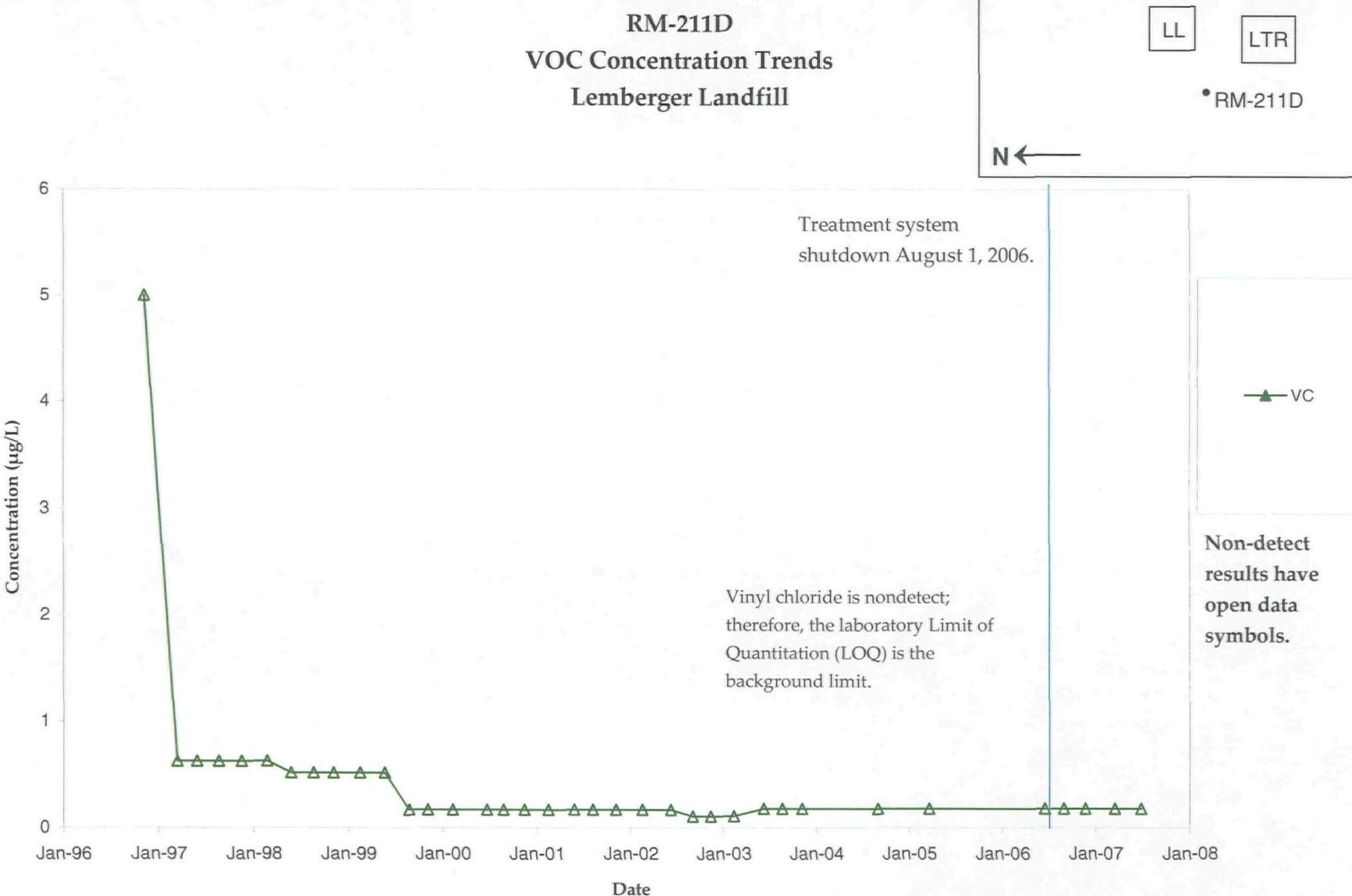
151

RM-211D
VOC Concentration Trends
Lemberger Landfill



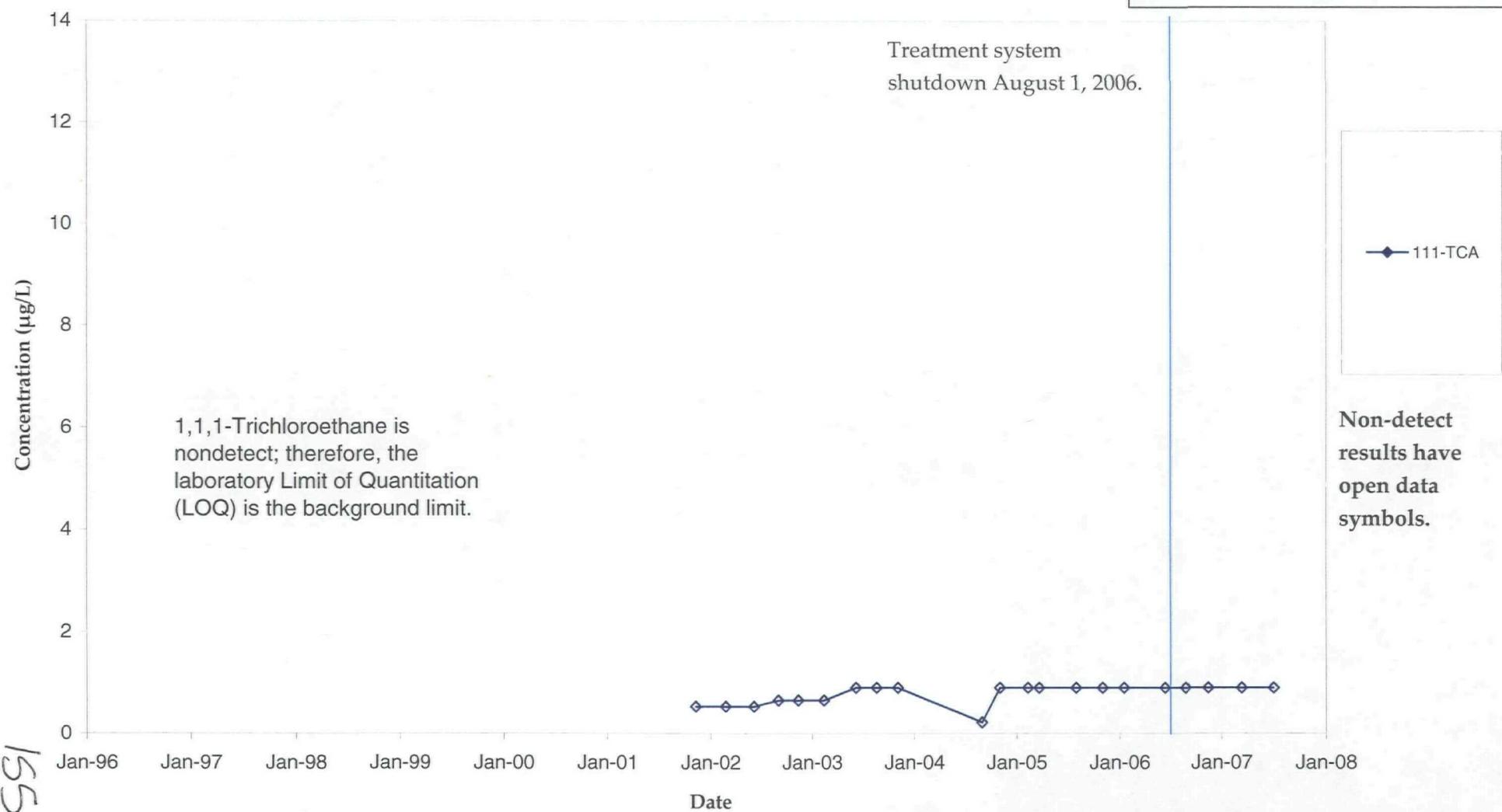
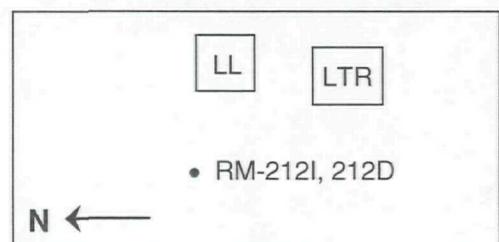


E5/



hS1

RM-212D
VOC Concentration Trends
Lemberger Landfill

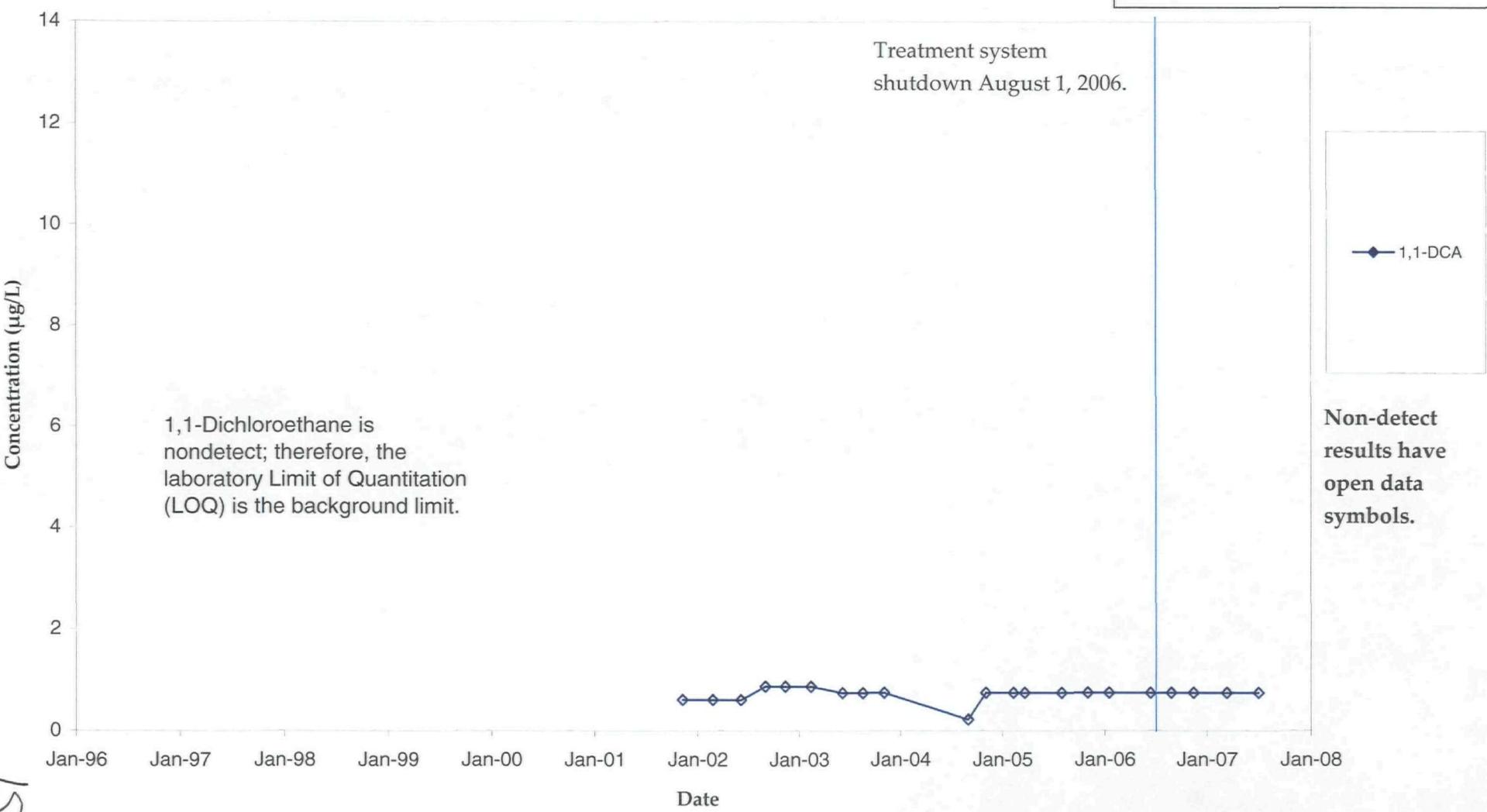


RM-212D

VOC Concentration Trends

Lemberger Landfill

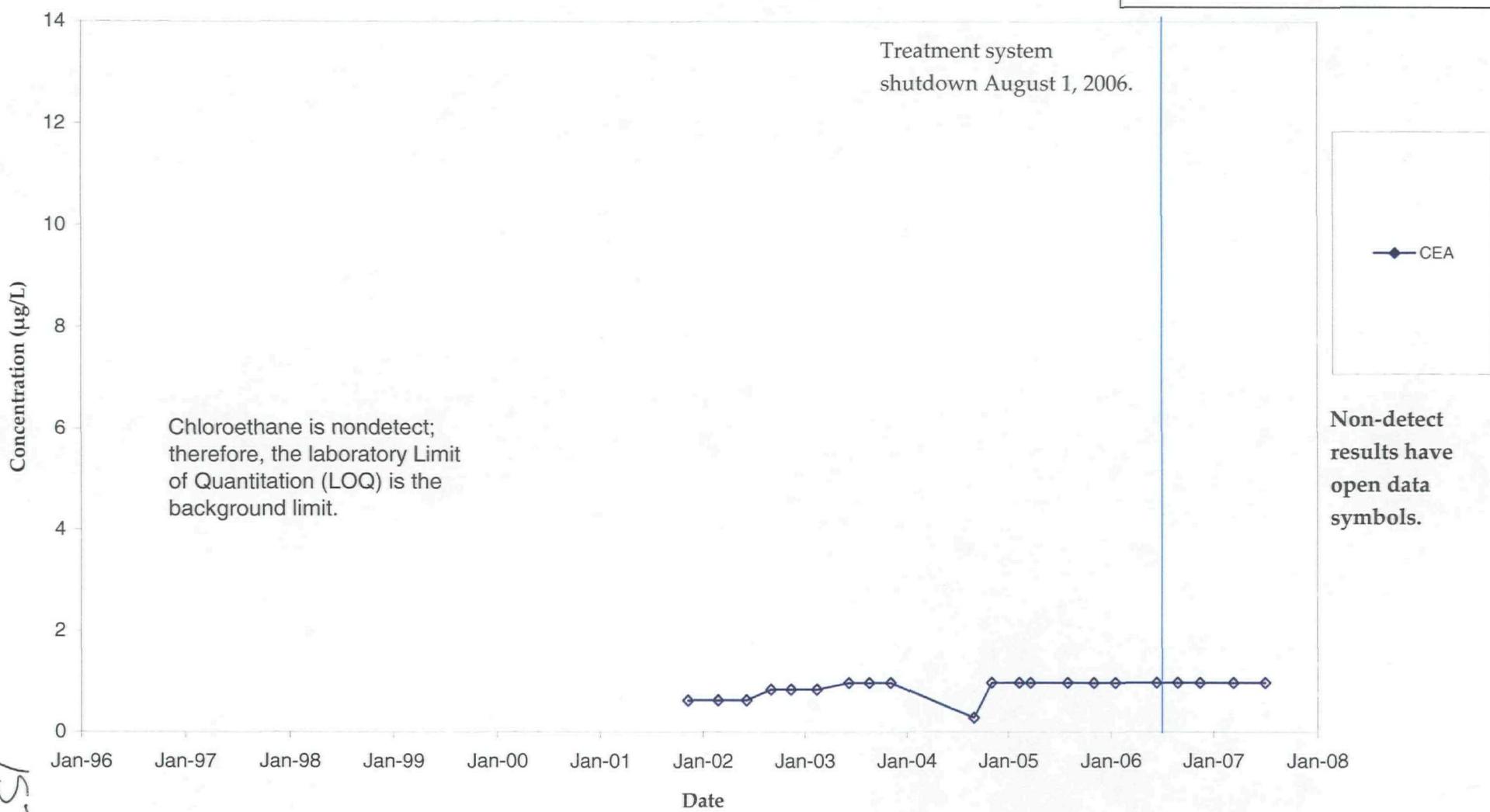
LL LTR



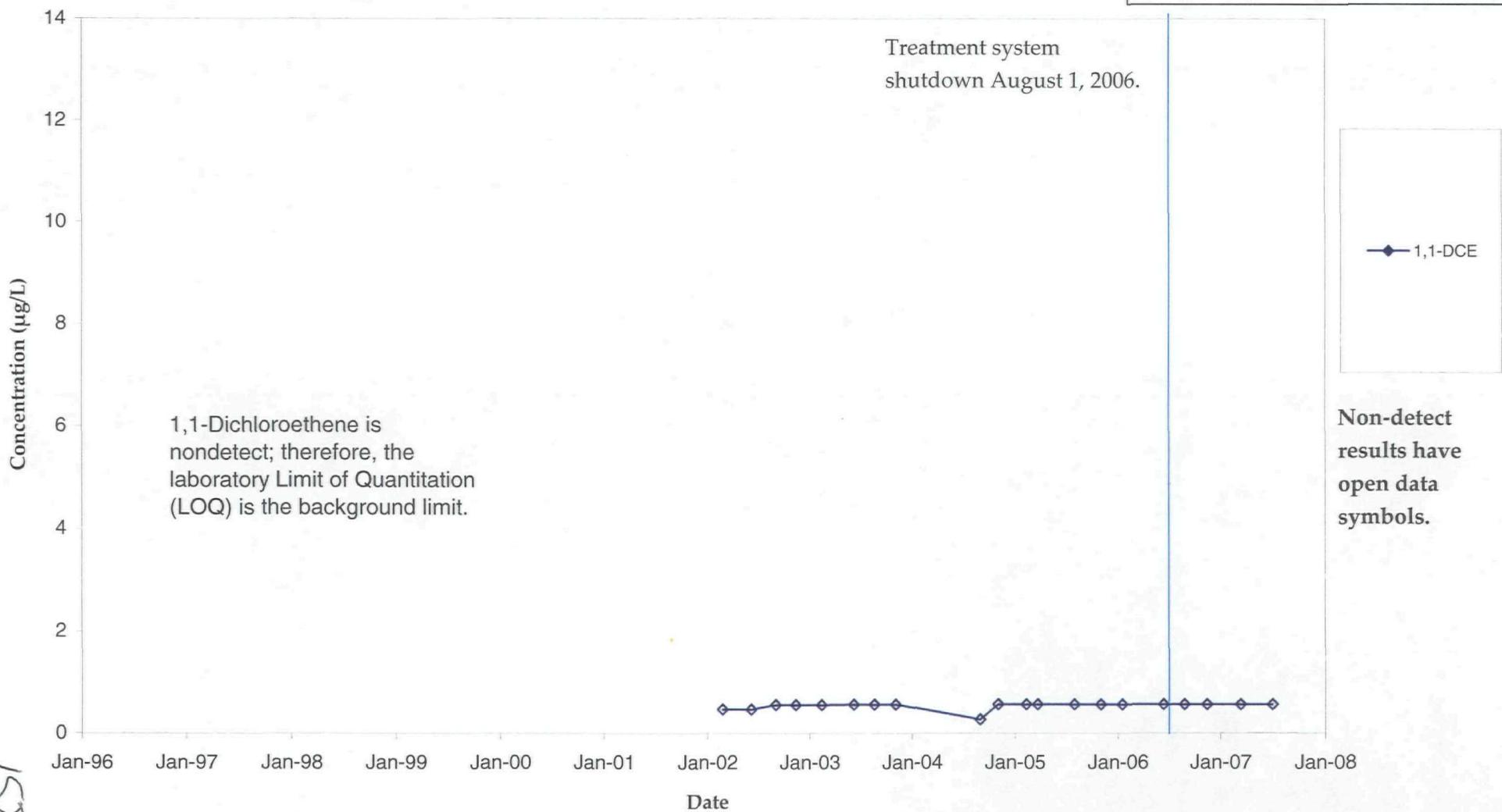
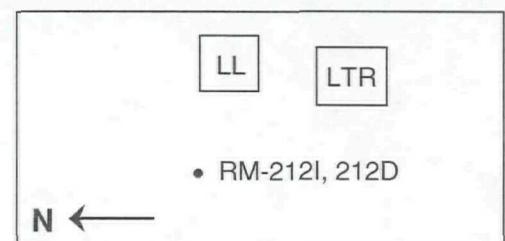
RM-212D

VOC Concentration Trends Lemberger Landfill

• RM-212I, 212D

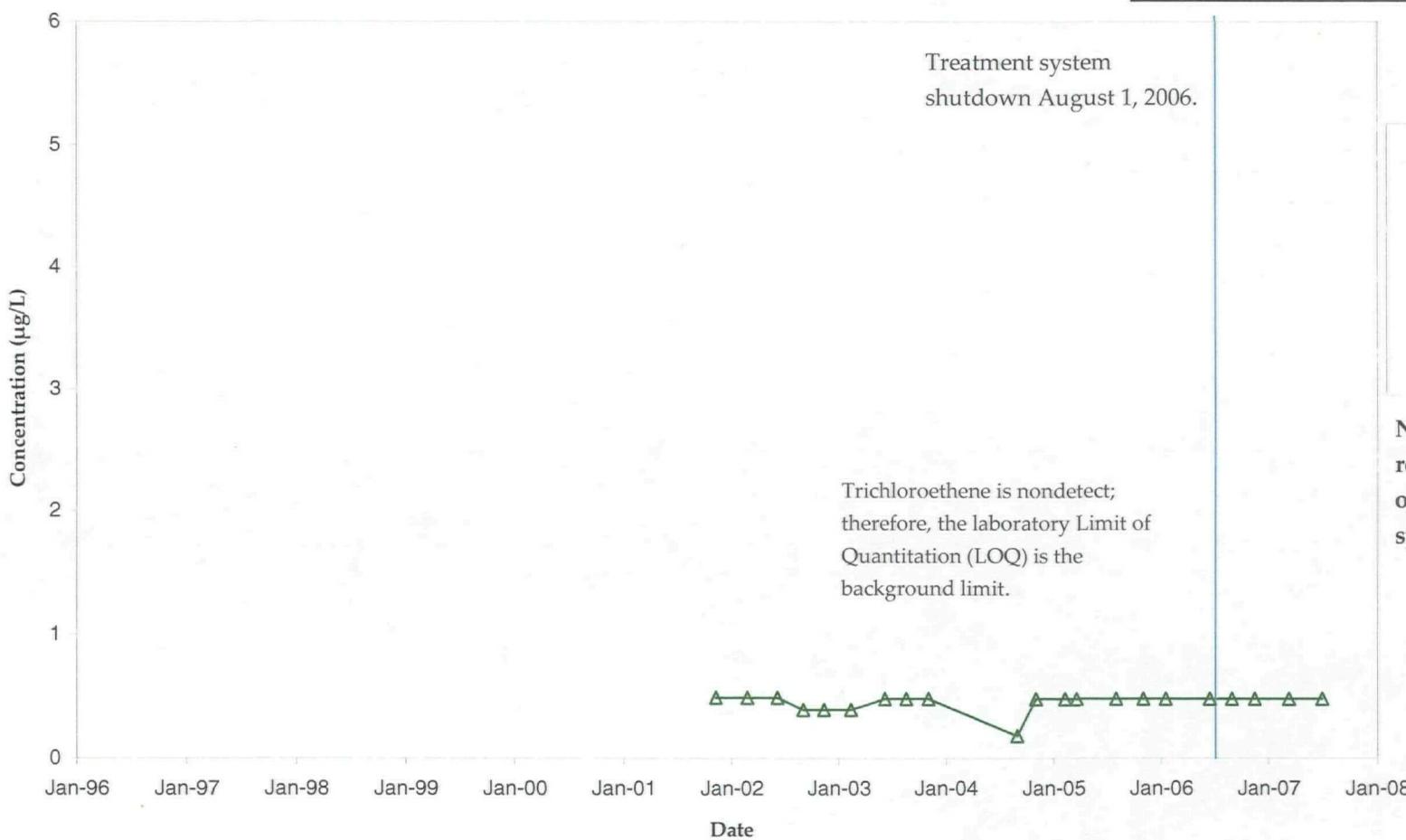


RM-212D
VOC Concentration Trends
Lemberger Landfill

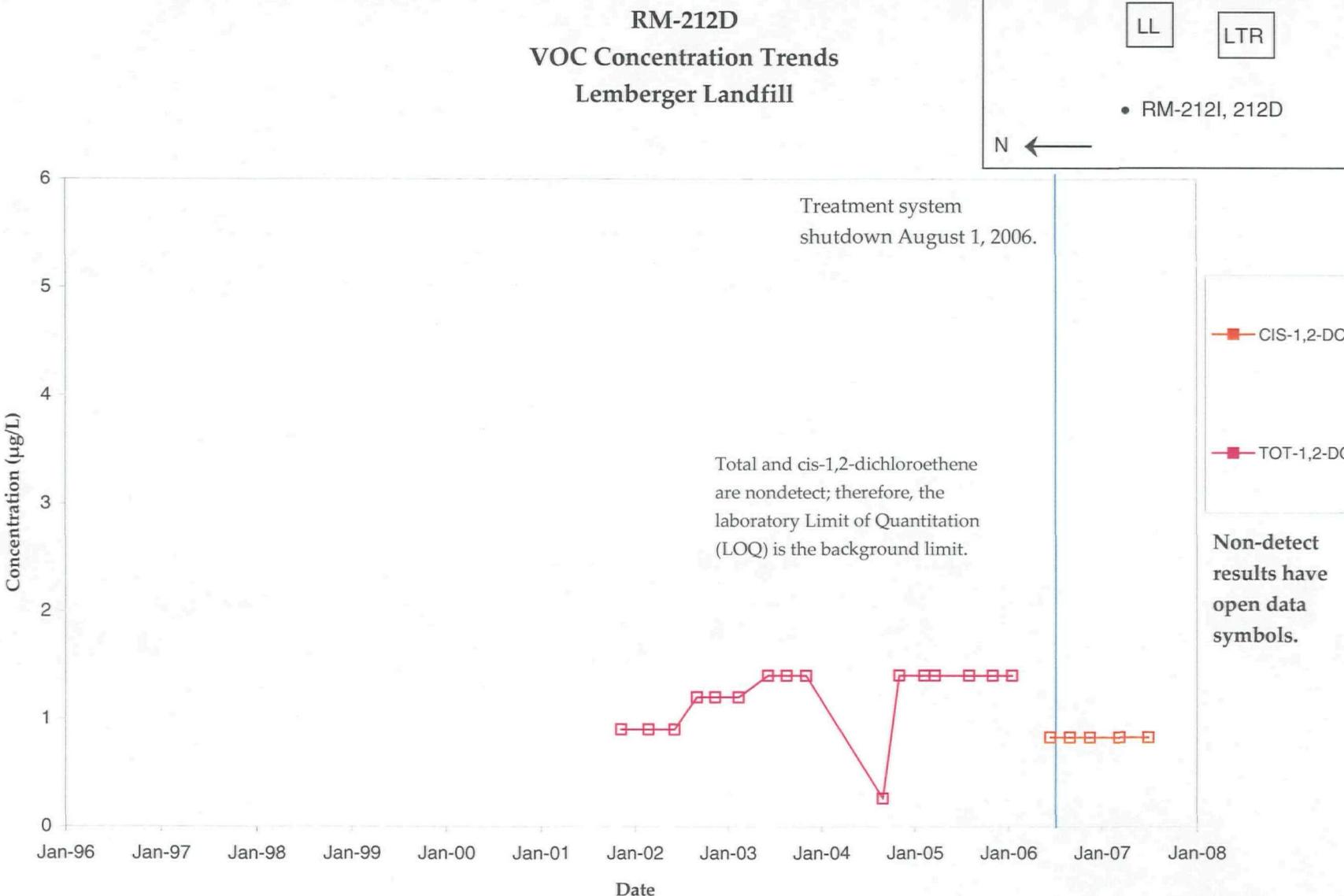


851

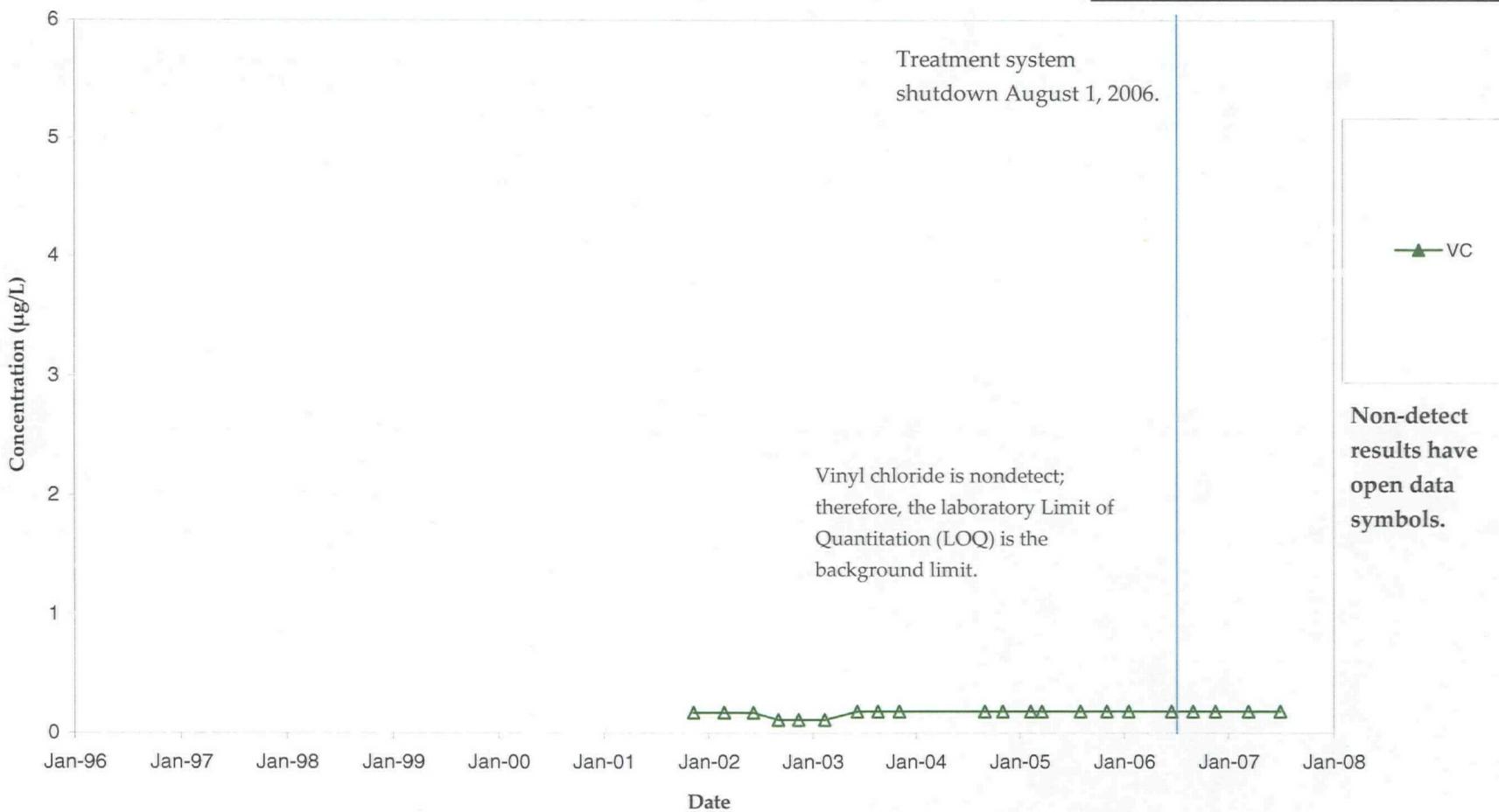
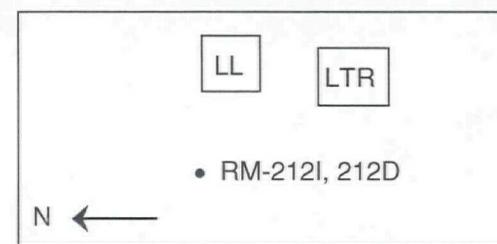
RM-212D
VOC Concentration Trends
Lemberger Landfill



b51



RM-212D
VOC Concentration Trends
Lemberger Landfill



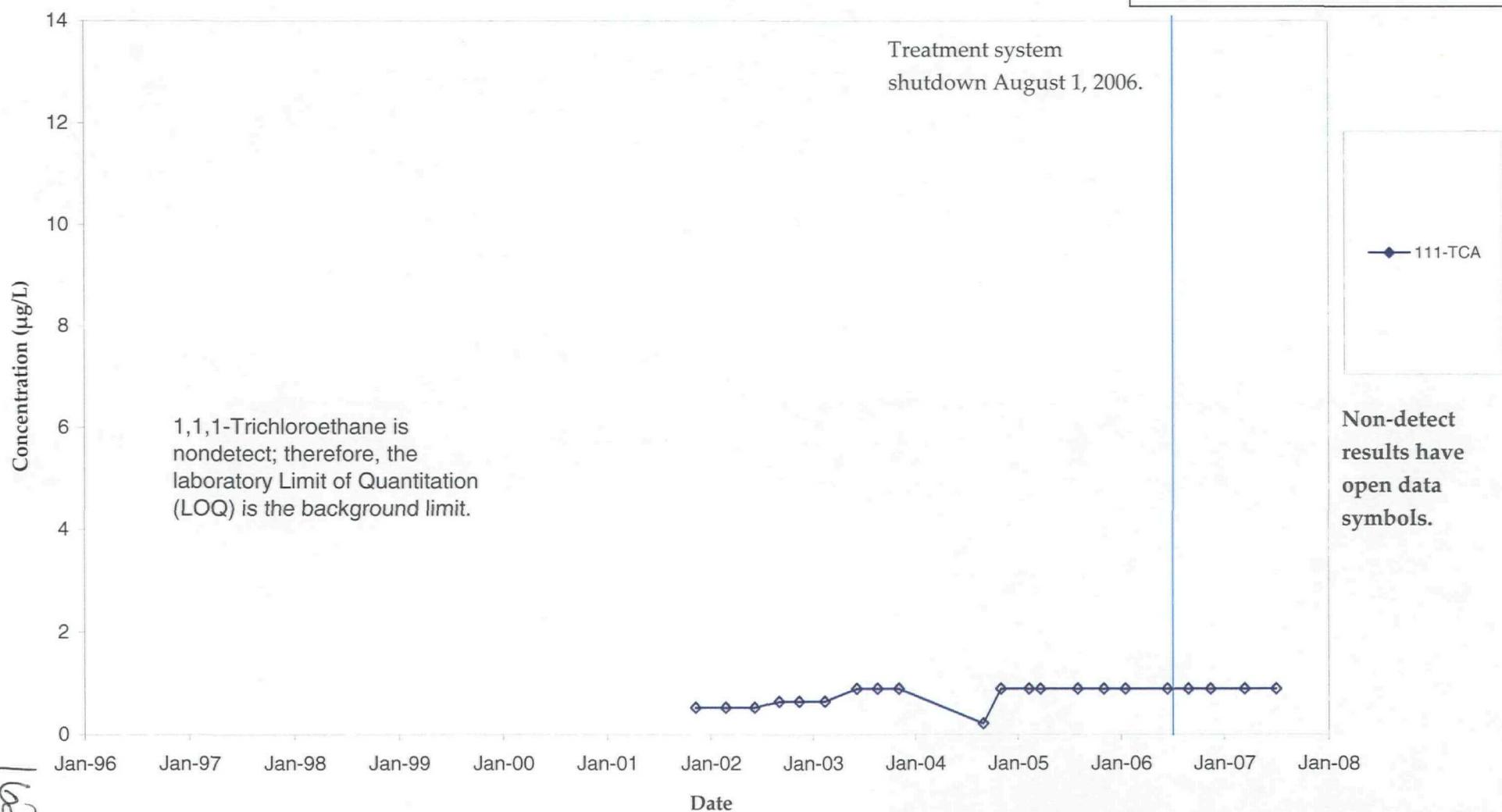
191

RM-212I

VOC Concentration Trends

Lemberger Landfill

The logo consists of two square boxes. The left box contains the letters "LL". The right box contains the letters "LTR".



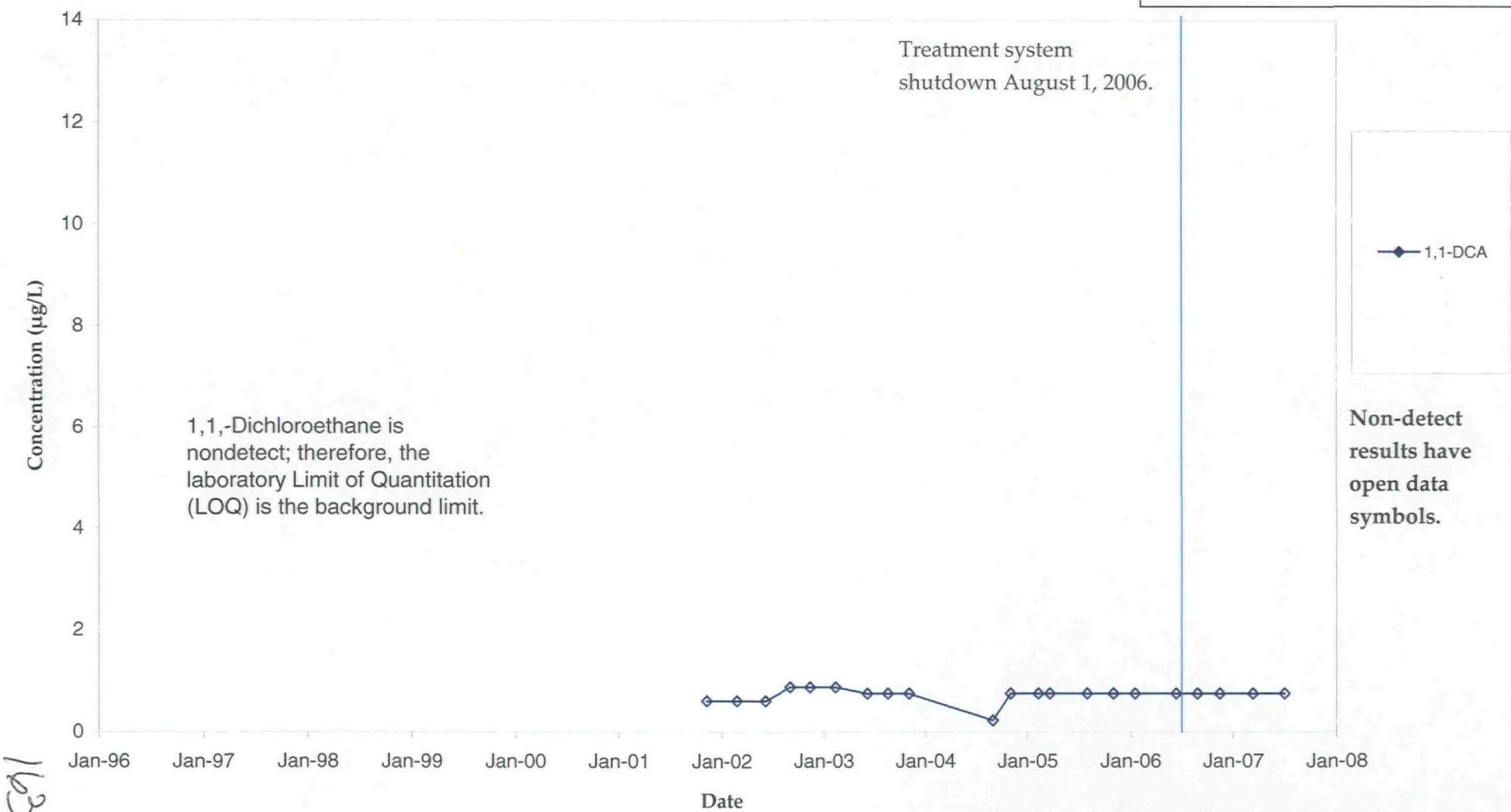
RM-212I

VOC Concentration Trends Lemberger Landfill

LL

- RM-212I, 212D

N ←

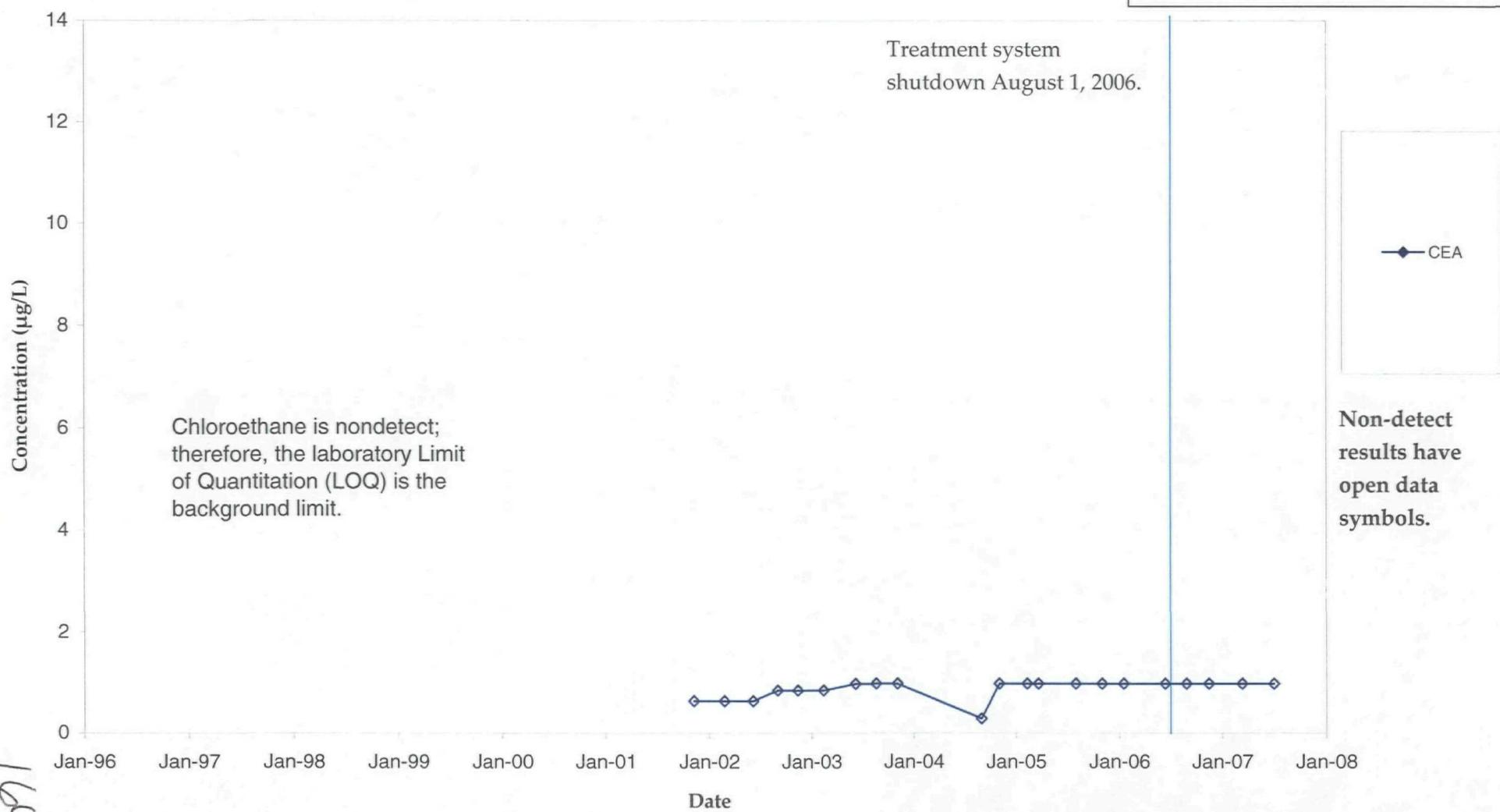


RM-212I

VOC Concentration Trends

Lemberger Landfill

LL LTR

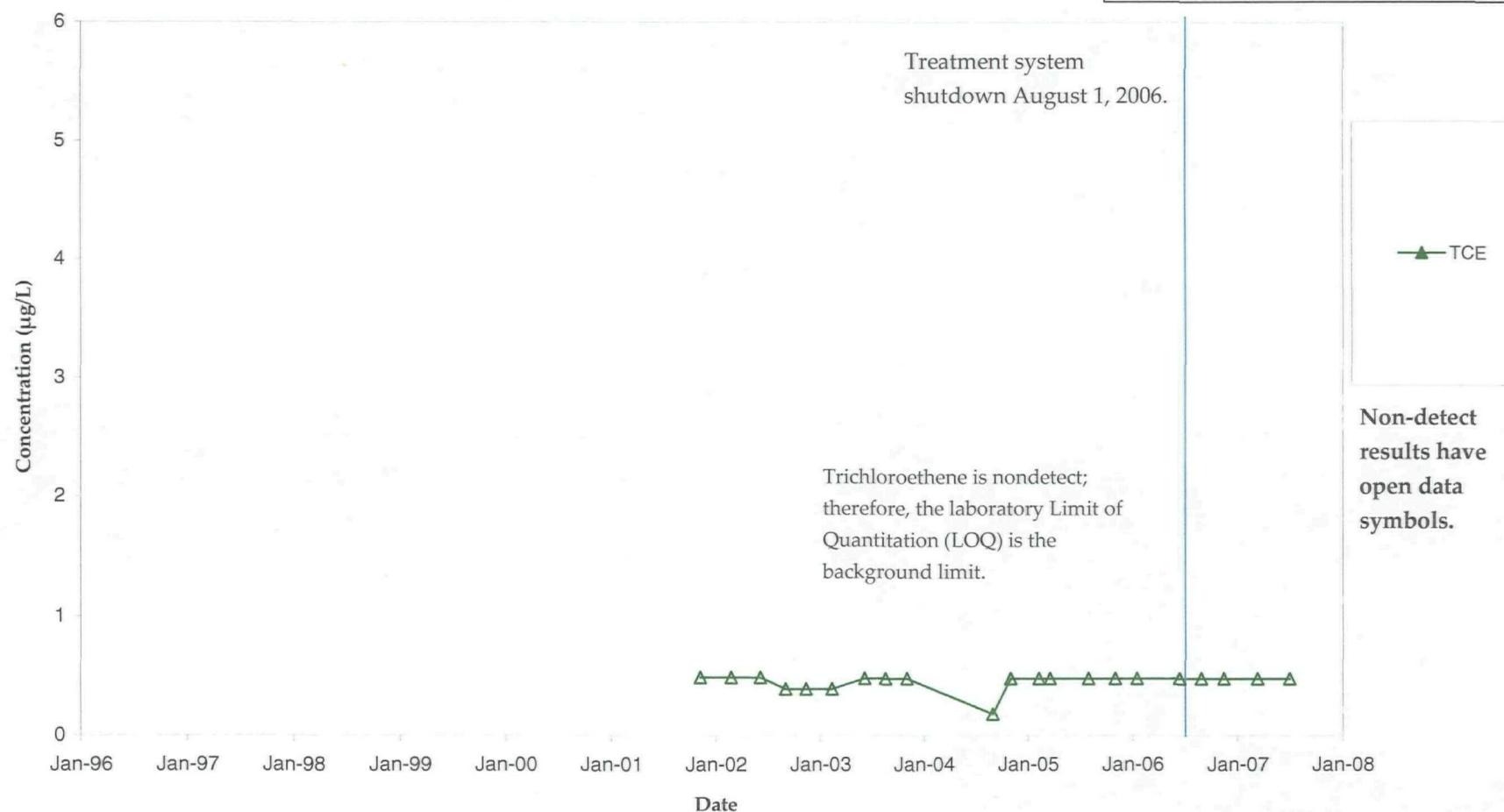


RM-212I
VOC Concentration Trends
Lemberger Landfill

LL LTR

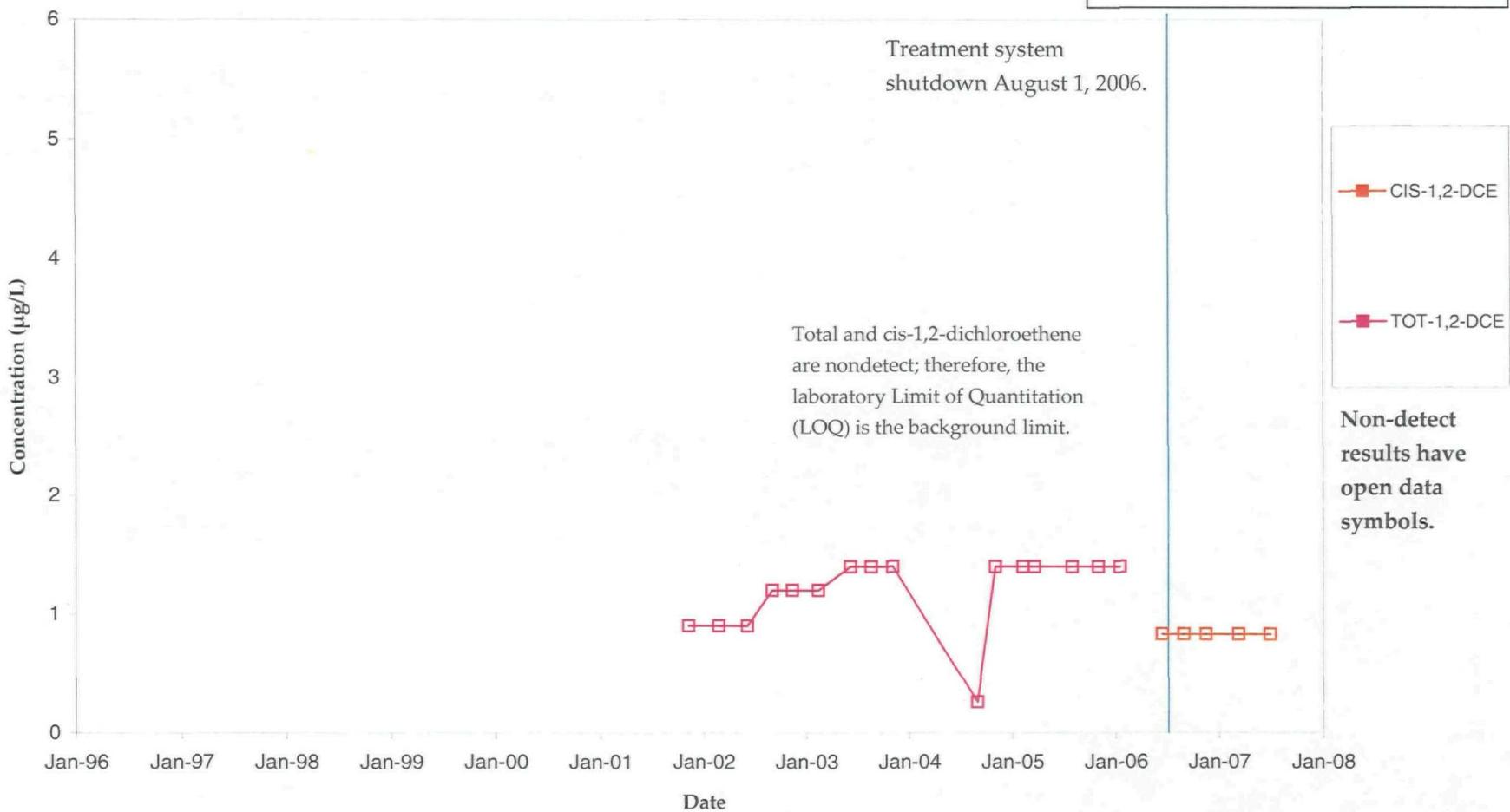
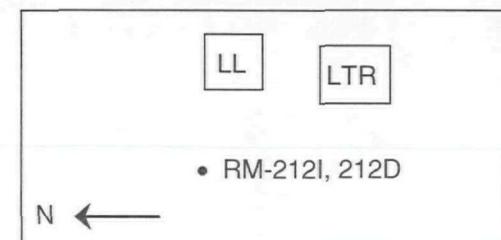
- RM-212I, 212D

Z ↑



501

RM-212I
VOC Concentration Trends
Lemberger Landfill



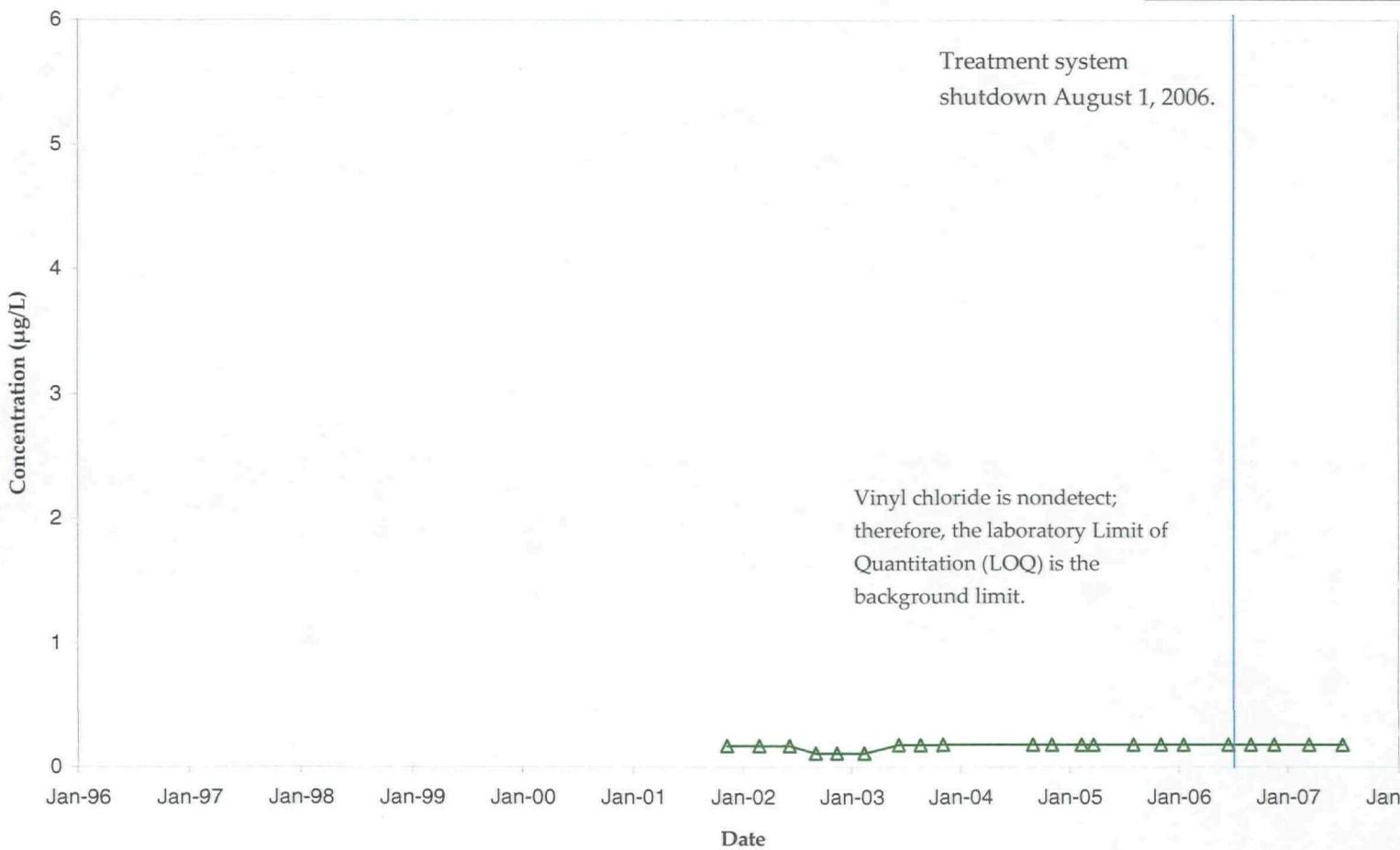
10/1

RM-212I
VOC Concentration Trends
Lemberger Landfill

LL LTR

- RM-212I, 212D

N ←



10/1/01